Mitigation Banking Instrument

• May hold easements which are perpetual in duration in accordance with the Virginia Conservation Easement Act (has had a principal office in the Commonwealth of Virginia for at least five years,

• Is a charitable corporation exempt from taxation pursuant to 26USCA 501 (c)(3), and a "qualified organization" and an "eligible donee" under Section 170(h)(3) of the internal Revenue Code and Treasury Regulation §1.170A-14(c)(1), whose purposes include those specified in the Virginia Conservation Easement Act, and has had a principal office in the Commonwealth of Virginia for at least five years,

Any proposed changes in credit composition must be proposed in the MBI. A copy of the recorded document shall be provided to the Corps within thirty (30) days of recordation.

B. Post-Construction

During or after the fifth growing season, the Chair(s), acting in consultation with the IRT, may assess the Functions and values of this ecological system (or when requested to do so by the Bank Sponsor). The IRT may issue a written determination to the Bank Sponsor that due to the demonstration of successful performance, the number of Credits attributable to this Mitigation Bank may be modified to reflect the Functions and values provided.

III. Accounting Procedures

A. The Bank Sponsor shall comply with the accounting procedures described in Section VI.D of the Banking Instrument and the quantitative assessment of Credits and Debits for permitted impacts as described herein.

B. In no event shall the cumulative total area of impacts to wetlands permitted to use Credits from the Mitigation Bank exceed the total area of wetlands created by this Mitigation Bank.

C. If the Mitigation Bank is constructed in Phases, the accounting of Credits shall duly reflect this phasing of work.

Mitigation Banking Instrument

	Original MBI	Bank Expansion	Original MBI	Bank Expansion
Proposed mitigation activity	Linear Fe	et/Acres	Propose	d Credit
Stream Restoration (LF)	5,576 LF	92 LF	5,576	92
Stream Enhancement with Instream Structures (LF)	989 LF	0 LF	297	0
Stream Enhancement (LF)	4,328 LF	0 LF	1,078	0
Riparian Areas – Preservation (LF or Ac)	4,393 LF / 1.7 Ac	22,894 LF/ 220.8 Ac	42	4,758
Riparian Areas – Planting/Re-Establishment (Ac)	153.9 Ac	0	8,546	0
Adjustment Factors (LF)			5,327	1,917
Other - add intermediate values here		14.1.4	N/A	N/A
5% Conservation Easement			N/A	N/A
Total for Entire Bank	38,272 LF	/ 376.4 Ac	27,	633
Percent of credits involving pres	ervation only	2963 1913		24%

** Linear feet and credits are subject to change based on the results of the as-built report, boundary surveys, delineations, and monitoring reports

Mitigation Banking Instrument Addendum 1

Exhibit Q Long-Term Management Plan

Long-term Management Plan For The Roanoke River Wetlands and Stream Mitigation Bank

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Mitigation Banking Instrument Addendum 1

Long-Term Management Plan

I Introduction

A Purpose of Establishment

The Roanoke River Wetlands and Stream Mitigation Bank ("Bank") was established by the Mitigation Bank Instrument ("MBI") to compensate for unavoidable impacts to, and to conserve and to protect aquatic resources and associated buffers. The Bank (Site) property includes 9.88 acres of aquatic resources including 3.7 (original) + 1.58 (Bank Expansion) acres of non-tidal wetlands and 0.64 (original) + 0 (Bank Expansion) acres of open waters, 5,576 (original) + 92 (Bank Expansion) linear feet of restored stream channel, 5,317 (original) + 0 (Bank Expansion) linear feet of enhanced stream channel, 1.7 (original) + 220.8 (Bank Expansion) acres of preserved riparian buffer and 153.9 (original) +0 (Bank Expansion) acres of restored or enhanced riparian buffer. The IRT Agencies include the Norfolk District of the U.S. Army Corps of Engineers, Region 3 of the U.S. Environmental Protection Agency, the Virginia Field Office of the U.S. Fish and Wildlife Service, the Virginia Department of Environmental Quality, the Virginia Department of Game and Inland Fisheries, the Virginia Department of Conservation and Recreation, and the Virginia Department of Forestry. Terms used in this management plan have the same meaning as defined in the MBI.

B Purpose of this Long-term Management Plan

The purpose of this long-term management plan is to ensure the Bank or Bank Site is managed, monitored, and maintained in perpetuity. This management plan establishes objectives, priorities and tasks to monitor, manage, maintain and report on the aquatic resources, associated buffers, covered species and covered habitat on the Bank. This management plan is a binding and enforceable instrument, implemented in accordance with the MBI and the real estate protection instrument (conservation easement or declaration of restrictions) covering the Bank property.

C Long Term Steward and Responsibilities

The Long-Term Steward is Roanoke River Wetlands and Stream Mitigation Bank, LLC. The Long-Term Steward, and subsequent Long-Term Stewards upon transfer, shall implement this long-term management plan, managing and monitoring the bank property in perpetuity to preserve its habitat and conservation values in accordance with the Bank's MBI, conservation easement and/or declaration of restrictions, and the long-term management plan. Long-term management tasks shall be funded through the Long-Term Management Fund. The Long-Term Steward must maintain a copy of the MBI and all addendums associated with the Bank (Site) including all deed restrictions and easements. The Long-Term Steward shall be responsible for providing an annual report to the IRT detailing the time period covered, an itemized account of the management tasks and total amount expended. Any subsequent grading, or alteration of the site's hydrology and/or topography

by the Long-Term Steward or its representatives must be approved by the IRT and the necessary permits, such as a Section 404 permit and/or Virginia Water Protection Permit, must be obtained if required.

- **D** Eminent Domain
- (a) If any Property is condemned or taken pursuant to governmental action or other exercise of the power of eminent domain (a "Taking"), or if the Long Term Steward or Owner of the property receives notice of a potential Taking, Long Term Steward will notify IRT in writing.
- (b) Long Term Steward has the obligation to pursue an award for the value of any Lost Mitigation (as defined in subsection (c)). If Long Term Steward or Owner of the property receives an award or any type of compensation from or related to the Taking that represents the value of any Lost Mitigation, then Long Term Steward will use that award, net of the cost and expense incurred by Long Term Steward or Owner of the property to pursue the award, to replace the Lost Mitigation, in accordance with instructions and approval of the IRT.
- (c) For purposes of this Section, "Lost Mitigation" means those Functions and Values (as hereafter defined) lost in the Taking for which credits have been sold by Bank Sponsor at the time of the Taking. "Functions and Values" means preservation, enhancement and restoration of streams, wetlands and other aquatic resources.
- (d) It is the intention of Long Term Steward and IRT that (i) this section requires Long Term Steward to replace lost Functions and Values only when Bank Sponsor has, as of the time of the Taking, sold the credits derived from the lost Functions and Values and (ii) Long Term Steward's obligation under those circumstances is limited to the award Long Term Steward or Owner of the property receives for the value of the lost Functions and Values, net of the cost and expense incurred by Long Term Steward or Owner of the property to pursue the award.

II Property Description

A Setting and Location

The Bank *(Site)* is located at 170 Pawnee Lane, Henry County, in the Commonwealth of Virginia. The original Bank is designated as Parcel No. 075870005 in Henry County and Tax Map No. 1190006401, 1190006400, and 1190006500 in Franklin County. The Bank expansion is designated as Tax Map No. 1190002900, 1190003000, and 1190006700 in Franklin County. The Property is shown on the general vicinity map (Exhibit A in MBI) and the bank property map (Exhibit B & C in MBI). The Bank consists of 182.0 acres within the approximate 358.87 acre original property + 237.82 acres within the approximate 392.95 acre Bank expansion property. The general vicinity map shows the Bank location in relation to cities, towns, or major roads, and other distinguishable landmarks. The Bank property map shows the Bank property boundaries on a topographic map.

B History and Land Use

The land in the general area of the Bank site currently consists of open farm pasture with grassy knolls, steep slopes, and wooded areas centered on the existing stream channels along with mature hardwood forests, late-succession regenerative growth, and upland pine stands. Aerial photographs dating to 1948 show the southern and western portions of the site as open, indicating livestock grazing has been taking place on the site for over 60 years. Within the last 20 to 25 years, the northeast area of the site has been cleared of trees providing more land for grazing. The Bank Expansion Property in the eastern portion of the site has primarily remained forested with upland areas used for timber. The last timber harvest was approximately 8-10 years ago and this area is currently undergoing regenerative growth.

The context of the site is rural in character with scattered rural residential homes and large tracts of woodland. The area is currently zoned Agricultural Forestry/Rural Residential and the Comprehensive Plans for Henry and Franklin Counties do not indicate any future development or change in zoning within the immediate area.

C Cultural Resources

The review of The Virginia Department of Historic Resources (DHR) Data Sharing System (DSS) revealed three archaeological resources within a 2-mile search radius of the Bank site originally. One additional archaeological resource was identified within a 2-mile search radius of the Bank Expansion Property. The four resources are located near the Bank, outside the property limits. There are no known archaeological or architectural resources within the proposed Bank site.

At the request of the DHR, an Identification (Phase 1) archaeological survey was conducted in all areas that may be affected by construction related activities on the original Bank. The results are included in Exhibit R of the approved MBI. The area identified for stream work on the Bank Expansion Property is located in a disturbed / low probability area and therefore did not warrant a Phase1 survey.

D Hydrology and Topography

Most stream channels are first order, originating on the Property while the largest streams (S1 on the original Bank and R3 on the Bank Expansion Property) are third order streams. The few wetlands located on site are primarily driven by surface flows and are located in low lying areas of the site. Elevations on site range from approximately 1,480 feet in the uplands of the Bank Expansion Property of the site to approximately 1,080 feet along the main tributary as it exits the southern portion of the original Bank site. The site is characterized by steep to moderate slopes with the majority of the streams originating on site. Upper reaches of the streams are fed primarily by surface runoff, with a few groundwater seeps occasionally present moving down-stream.

E Soils

The Bank is located within the Piedmont Physiographic Region. The soils of this region are derived from residuum weathered from mica schist, mica gneiss, metagrawacke, and high grade metamorphic parent material. The soils along the flood plain of the streams that transect the property are derived from alluvium deposited from the erosion of the soils weathered from these parent materials. According to the Natural Resources Conservation Service (NRCS) *Soil Survey for Franklin County, Virginia* and the *Soil Survey for Henry County, Virginia*, the site is situated on eight soil series: Clifford fine sandy loam, Codorus loam, Comus-Maggodee-Elsinboro complex, Colescreek-Delanco complex, Hickory Knob-Rhodhiss-Stott Knob complex, Minnieville loam, Woolvine-Fairview-Westfield complex and Woolvine-Clifford complex. None of the above soil series are classified by the NRCS as hydric.

F Existing Easements

Easements within the original Property limits include several overhead electric distribution lines, an Appalachian Power Company (APCO) transmission line, and a buried cable utility line. Additional easements on the Bank Expansion Property include the same APCO transmission line, a Lee Telephone Company easement, and a Plantation Pipe Line Company gas line. At the locations of the three culverts, VDOT maintains a drainage easement which extends approximately 25-feet upstream or downstream from the edge of the culvert. In addition, the original property has a Virginia Outdoors Foundation (VOF) easement which limits future development. This easement is being amended to include the Bank Expansion Property. Besides allowing agricultural and forestry practices, the easement also allows 1) wetland and stream bank restoration, or erosion control, pursuant to a governmental permit, 2) fencing along or within the buffer area, 3) construction and maintenance of stream crossings that do not obstruct water flow, and 4) creation and maintenance of foot or horse trails with unimproved surfaces.

The attached Bank Development Plan depicts the locations of the above easements.

Since stream credits are being obtained from several watersheds extending beyond the Bank limits but within the property due to the protections afforded by the VOF easement, a summary of the restrictions and allowances in the VOF easement that could occur within portions of these watersheds is listed below. Summary of VOF Easement Restrictions/Allowances

- This deed conforms to both Henry County and Franklin County land use policies as outlined in their respective Comprehensive Plans
- Property not to be divided into more than three parcels

Buildings:

- Three single family dwellings may be sited on the property
 - One dwelling may be up to 5,500 square feet of above grade living area

- Other two dwellings not to individually exceed 4,500 square feet above ground enclosed living area
- One dwelling may be sited in Building Area A (See VOF Easement, Exhibit A). Other dwellings shall be sited in Building Area B (See VOF Easement, Exhibit A).
- Three secondary dwellings, or dwelling units (barns, garage apartment) of which one exists
 - These dwellings not to individually exceed 2,000 square feet above ground enclosed living area
 - One dwelling may be sited in Building Area A. Other dwellings shall be sited in Building Area B (See VOF Easement, Exhibit A).
- Non-residential structures and outbuildings associated with above dwellings.
 - Aggregate footprint of all such buildings associated with each residential dwelling not to exceed 2,500 square feet in ground area
- Farm buildings or structures
 - o Cannot exceed 4,500 square feet in ground area
 - Deed recognizes a farm building of approximately 11,000 square feet that exists on site
- Collective footprint of all buildings and structures, excluding roads, shall not exceed 1% of the total area of the property (1% = 3.57 acres)

Roads & Utilities:

- Private roads and utilities to serve permitted buildings may be constructed
- Roads with permeable surfaces for other permitted uses such as farming or forestry may be constructed and maintained
- Underground utilities to serve adjacent properties may be constructed and maintained at the sole and absolute discretion of VOF

Management of Forest:

- Future timber harvest activities shall be guided by a Forest Stewardship Management Plan approved by VOF
- Removal of invasive species does not require a Forest Stewardship Management Plan

Grading, Blasting, Mining:

- Grading or earth removal may be done in association with:
 - wetlands or stream bank restoration pursuant to a government permit
 - Erosion and sediment control pursuant to a government-required E&S plan
- Mining, dredging, and drilling for oil/gas are prohibited

Riparian Buffer:

- To protect water quality, no plowing, cultivation or earth-disturbing activity, or new buildings within 100-foot buffer strip along perennial tributary to Reed Creek
 - o Exception to this if doing wetland or stream bank restoration or fencing
- Amendment may be made to this Easement if it enhances the conservation values or adds to the restricted property.

G Adjacent Land Uses

Generally, the area surrounding the Bank is rural in character. Rural residential homes and small farms are found adjacent to the Bank. Large tracts of woodland also surround the Bank, of which some are used for timber/logging.

As of May 2010, all properties bordering the eastern portion of the Bank are intact forest lands. The southeastern and northwestern portions are bounded by County Road 657 (Old Quarry Road) and State Road 608, respectively, the other side of which is a mix of forest, open fields, and a few single family residences. The property adjacent to the northern portion of the Bank was timbered in the Spring of 2009.

III Habitat and Species Descriptions

A Baseline Description of Biological Resources on Bank Site

Small forested corridors on the original site include upland vegetation such as tulip poplar (Liriodendron tulipifera), green ash (Fraxinus pennsylvatica), black walnut (Juglans nigra), sweet gum (Liquidambar styraciflua), black cherry (Prunus serotina), red maple (Acer rubrum), common persimmon (Diospyros virginiana), Virginia pine (Pinus virginiana), sycamore (Platanus occidentalis), and coralberry (Symphoricarpos orbiculatus). The forest on the Bank Expansion Property includes the same species, and also northern red oak (Quercus rubra), American beech (Fagus grandifolia), and northern spicebush (Lindera benzoin). Invasive species which were noted within the forested corridors include multiflora rose (Rosa multiflora), Japanese honeysuckle (Lonicera japonica), Barberry (Berberis spp.), and Tree-of-heaven (Ailanthus altissima). The emergent wetlands contain primarily soft rush (Juncus effuses) and fescue.

The majority of the Bank contains herbaceous pasture grasses suitable for cattle. A thorough biological assessment of the stream and wetland resources has not been performed, however degradation from livestock is prominent. Erosion and sedimentation and a general lack of biological activity are evident in both streams and wetlands.

B Summary of Bank Development Plan

Development of the Bank will involve stream mitigation activities via stream and riparian area restoration, enhancement, and preservation activities as depicted in the Bank Development Plan (Exhibit D in MBI). Specific goals and objectives for each portion of the Bank shall be specifically provided in the Mitigation Site Plan for each phase of the Bank.

1. Riparian Area Activities

Approximately 155.7 (original) +220.8 (Bank Expansion) acres of the Bank will be included as riparian area activities. Heavy planting of the riparian buffer is the predominant activity, comprising 145.9 acres (original). Light planting encompasses 8.1

acres (original) and riparian buffer preservation includes 1.7 (original) +220.8 (Bank Expansion) acres. Several areas throughout the site, including some of the heavy planting and light planting areas, will also include invasive removal and/or control.

2. Stream Preservation

The Bank will preserve approximately 4,393 (original) + 22,894 (Bank Expansion) linear feet (LF) of unnamed tributaries on site. In general, the streams proposed for preservation are both low gradient and high gradient, have stable banks and demonstrate a variety of instream habitats.

3. Stream Enhancement (with and without structures)

Stream enhancement activities are proposed on approximately 5,317 (original) + 0 (Bank Expansion) LF throughout the site. Stream enhancement activities can fall into two separate categories: with structures and without structures. Stream enhancement with instream structures may include constructed riffles, rock cross-vanes and/or j-hooks. The instream structures are typically used to divert erosive flows from unstable stream banks and may also be used to provide grade control in areas that are unfeasible for restoration. Stream enhancement without instream structures include biological and mechanical bank work, such as:

- Laying back the banks;
- Installation of bankfull benches; and
- Streambank plantings.

4. Stream Restoration:

Stream restoration is proposed on approximately 5,576 (original) + 92 (Bank Expansion) LF of unnamed tributaries throughout the site. The proposed stream restoration area is located primarily in the active livestock pasture; but is also required near Route 608, where the culvert outfall has caused extensive erosion; at the pond, where the existing dam will be removed and the channel will be reconstructed through this area; and a culvert removal on the Bank Expansion Property.

Priority 1, 2, and 3 stream restoration practices are proposed on the Site. The primary objective of Priority 1 stream restoration is to re-establish dimension, pattern, and profile on the previous floodplain using relic channel or construction of new bankfull discharge channel. The primary objective of Priority 2 stream restoration is to construct a channel in the bed of the existing channel, and convert the existing bed to new floodplain. The primary objective of Priority 3 restoration is to create a stable channel that contains a flood prone area, but may be too confined to create an active floodplain. Stream restoration shall be accomplished by a combination of practices, including, but not limited to:

- Restoration of a natural meander pattern;
- Installation of instream structures to further stabilize the stream channel and provide grade control;
- Installation of habitat structures, such as root wads;
- Herbicide treatments of non-native species, if required;
- Replanting of indigenous vegetation; and

- Mitigation Banking Instrument Addendum 1
- Fencing along adjacent agricultural uses.
- C Endangered and Threatened Species

A search of the Virginia Department of Game and Inland Fisheries (VDGIF) online database was conducted on June 8, 2009 (original) and March 6, 2013 (Bank expansion) using a 2mile radius around the proposed Bank. The search revealed no known threatened or endangered species within the search area. No threatened and endangered waters, cold water streams, anadromous fish reaches or other items of significance were identified on the proposed Bank.

The FWIS database search also lists Wildlife Action Plan (WAP) Tier I, II, and III species predicted habitat that is located within the two-mile radius search. Spotted-margin Madtom (*Noturus insignis*), Roanoke bass (*Ambloplites cavifrons*), and Roanoke logperch (*Percina rex*) were listed for their known association with Reed Creek. Spotted-margin Madtom and Roanoke bass are Tier II species, species with a very high conservation need. Roanoke logperch is a Tier I species, characterized by critical conservation need, and also a federal and state endangered species. Predicted habitat for all these species is located ¼-mile to 1-mile from the Site. Specifically, the Roanoke logperch is found throughout the Smith River. Most of the larger tributaries to the Smith River, including the lower reaches of Reed Creek, are considered potential habitat for this species.

However, the Roanoke logperch (*Percina rex*), a federally endangered species, is found throughout the Smith River. It is known above and below Philpott Dam. Below Philpott Dam it is found from Town Point Creek down to the Virginia / North Carolina border. Most of the larger tributaries to the Smith River are considered potential habitat for this species, including the lower reaches of Reed Creek.

The U.S. FWIS IPaC system generated a list of federally endangered species that may be affected by the proposed project. The species listed include the James spinymussel (*Pleurobema collina*), Mitchell's Satyr Butterfly (*Neonympha mitchellii mitchellii*), Roanoke logperch (*Percina rex*), and Smooth coneflower (*Echinacea laevigata*). As part of the IPaC review, a search of the Center for Conservation Biology (CCB) Bald Eagle Nest Locator was also conducted. No identified nests or associated management zones were located within the Site, according to the CCB Bald Eagle Nest Locator.

D Rare Species and Species of Special Concern

There are no known rare species or species of special concern that occur on the Bank site.

IV Management and Monitoring

The overall goal of long-term management is to foster the long term viability of the Bank site's aquatic resources, associated buffers, and any listed species/habitat. Routine monitoring and minor maintenance tasks are intended to assure the viability of the Bank site in perpetuity.

A Biological Resources

The approach to the long-term management of the Bank site's biological resources is to conduct annual site examinations and monitoring of selected characteristics to determine stability and ongoing trends of the preserved, restored, enhanced, and created aquatic resources and associated buffers, including wetlands and streams. Annual monitoring will assess the Bank's condition, degree of erosion, establishment of invasive or non-native species, water quality, fire hazard, and/or other aspects that may warrant management actions. While it is not anticipated that major management actions will be needed, an objective of this long-term management plan is to conduct monitoring to identify any issues that arise, and using adaptive management to determine what actions might be appropriate. Those chosen to accomplish monitoring responsibilities will have the knowledge, training, and experience to accomplish monitoring responsibilities.

Adaptive management means an approach to natural resource management which incorporates changes to management practices, including corrective actions as determined to be appropriate by the IRT in discussion with the Long-Term Steward. Adaptive management includes those activities necessary to address the affects of climate change, fire, flood, or other natural events. Before considering any adaptive management changes to the long-term management plan, the IRT will consider whether such actions will help ensure the continued viability of Bank's biological resources.

The Long-Term Steward for the Bank site shall implement the following:

Element A.1 Aquatic Resources, including Wetlands, and Associated Buffers

Objective: Monitor, conserve and maintain the Bank site's aquatic resources and associated buffers. Limit any impacts to aquatic resources and associated buffers from vehicular travel or other adverse impacts.

Task: At least one annual walk-through survey will be conducted to qualitatively monitor the general condition of these habitats. General topographic conditions, hydrology, general vegetation cover and composition, invasive species, erosion, will be noted, evaluated and mapped during a site examination. Notes to be made will include observations of species encountered, water quality, general extent of wetlands and streams, and any occurrences of erosion, structure failure, or invasive or non native species establishment and/or expansion.

Task: Establish reference sites for photographs and prepare a site map showing the reference sites for the Bank file. Alternatively, utilize photographic reference sites, if any, developed during interim bank management period. Reference photographs will be taken of the overall Bank site at least every five years from the beginning of the long-term management,

with selected reference photos taken on the ground more frequently, one time per year.

Special attention should be paid to any area adjacent to or draining from nonbank lands. Streams and wetlands should be observed near bank boundaries to observe if increased sediment deposition has occurred. The report should provide a discussion of any recent changes in the watershed (i.e., subdivision being developed upstream of stream bank).

Element A.2 Threatened/Endangered Plant Species Monitoring (if applicable)

This section is not applicable to this project.

Element A.3 Threatened/Endangered Animal Species Monitoring (if applicable)

This section is not applicable to this project.

Element A.4 Invasive Species

Invasive species threaten the diversity or abundance of native species through competition for resources, predation, parasitism, interbreeding with native populations, transmitting diseases, or causing physical or chemical changes to the invaded habitat.

Objective: Monitor and maintain control over invasive species that diminish site quality for which the bank was established. The Long-Term Steward shall consult the Virginia Department of Conservation and Recreation's Invasive Alien Plant list at

<u>http://www.dcr.virginia.gov/natural_heritage/documents/invlist.pdf</u> for guidance on what species may threaten the site and on management of those species.

Task: Mapping of invasive species cover or presence shall occur during the first five years of bank management, to establish a baseline. Mapping shall be accomplished through use of available technologies, such as GIS and aerial photography.

Task: Each year's annual walk-through survey (or a supplemental survey) will include a qualitative assessment (e.g. visual estimate of cover) of invasive species. Additional actions to control invasive species will be evaluated and prioritized in coordination with the IRT.

Task: Twice per year, herbicide application and/or bush hogging may be completed in the areas outside the riparian buffer but within the Bank limits.

Attached to this plan are fact sheets (including identification aid) for all highly invasive/non-native species known to be present on the site, including

multiflora rose (Rosa multiflora), Japanese honeysuckle (Lonicera japonica), and Tree-of-heaven (Ailanthus altissima) (see Appendix A MBI).

Element A.5 Vegetation Management

Objective: Analyze effects of any authorized silvicultural manipulations or vegetative maintenance on the wetland, streams, and buffers on the bank site. If determined appropriate, develop and implement specific silvicultural manipulations (e.g. selective thinning) or vegetative maintenance in coordination with the IRT.

Objective: Adaptively manage vegetation based on site conditions and data acquired through monitoring to maintain biological values. Analyze effects of any activities adjacent to the Bank on the vegetation management or composition within the Bank.

Task: Review and explore potential vegetation management regimes as proposals and/or opportunities and funding arise. If determined to potentially maintain site quality, develop specific silvicultural/vegetation practices, amend this long-term management plan with the IRT's approval to reflect those practices, and implement silvicultural/vegetation actions as funding allows.

Task: Implement vegetation management techniques, if determined beneficial and as funding allows, allowing and encouraging development of vegetation as identified in the MBI. Implementation of vegetation management techniques must be approved by the IRT.

B Security, Safety, and Public Access

The Bank will be fenced or appropriately marked and may be accessed by the public only with the permission of the landowner or long term steward. Research and/or other educational programs or efforts, hunting, fishing, and passive recreational activities are allowed on the Bank site, but are not specifically funded or a part of this long-term management plan.

If mosquito abatement issues arise, they will be addressed through the development of a plan by the Long-Term Steward and any local mosquito control district or local health department in coordination with and approved by the IRT.

Potential wildfire fuels will be reduced as needed where approved by the IRT.

Element B.1 – Trash and trespass

Objective: Monitor sources of trash and trespass.

Objective: Collect and remove trash, repair vandalized structures, and rectify trespass impacts.

Task: During each site visit, record occurrences of trash and/or trespass. Record type, location, and management mitigation recommendations to avoid, minimize, or rectify a trash and/or trespass impact.

Task: At least once yearly collect and remove as much trash as possible and repair and rectify vandalism and trespass impacts.

Element B.2 – Fire Hazard Reduction

Objective: Maintain the site as required for fire control while limiting impacts to biological values.

Task: Reduce vegetation in any areas recommended by authorities, and as approved by the IRT, for fire control.

C Infrastructure and Facilities

Element C.1 Fences, Gates, Signage, Crossings, and Property Boundaries

Objective: Monitor condition of fences, gates, signage, crossings, and property boundaries.

Objective: Maintain fences, gates, signage, crossings and property boundaries to prevent casual trespass, allow necessary access, and [*if applicable:* facilitate management.]

Task: During each site visit, record condition of fences, gates, signs, crossings, and property boundaries. Record location, type, and recommendations to implement repair or replacement to fence, gate, signage, crossings or property boundary markers, if applicable.

Task: Maintain fences, gates, signs, crossings and property boundary markers as necessary by replacing posts, wire, gates, and signs. Replace fences and/or gates, as necessary, and as funding allows. Note any trespass by livestock.

Element C.2 Berms, Structures, and Roads

Objective: Monitor condition of berms, structures, and roads.

Objective: Maintain berms, structures, and roads to facilitate management and maintain conditions of wetlands and streams

Task: During each site visit, record condition of berms, structures, and roads. Record location, type, and recommendations to implement repair or replacement to berms, structures, and roads, if applicable. Task: Maintain berms, structures, and roads as necessary. Replace berms, structures, and roads as necessary, and as funding allows.

D Reporting and Administration

Element D.1 – Annual Report

Objective: Provide annual report on all management tasks conducted and general site conditions to IRT and any other appropriate parties. Each report shall include a cover page with the following information: the bank name, (umbrella bank name if applicable), site name (if applicable), bank phase (if applicable), Long-Term Steward (name, address, phone number, and email address), monitoring year, and any requested action (e.g. funding release, maintenance recommendations requiring IRT approval).

Task: Prepare annual report and any other additional documentation. Include a summary. Complete and circulate to the IRT and other parties by December 31 of each year. Reports should be distributed electronically.

Task: Make recommendations with regard to (1) any enhancement measures deemed to be warranted, (2) any problems that need near-,short-, and long-term attention (e.g., weed removal, fence repair, erosion control), and (3) any changes in the monitoring or management program that appear to be warranted based on monitoring results to date. Provide documentation of the cost of any recommended maintenance and repairs.

V Transfer, Replacement, Amendments, and Notices

A Transfer

Any subsequent transfer of responsibilities under this long-term management plan to a different Long-Term Steward shall be requested by the Long-Term Steward in writing to the IRT, shall require written approval by the IRT, and shall be incorporated into this long-term management plan by amendment.

The long-term steward shall be required to ensure that any subsequent property owners (if not identified as the long-term steward) are notified of the deed restriction, conservation easement, purpose and location of the bank lands, and requirement for long-term stewardship.

B Replacement

If the Long-Term Steward fails to implement the tasks described in this long-term management plan and is notified of such failure in writing by any of the IRT, the Long-Term Steward shall have 90 days to cure such failure. If failure is not cured within ninety (90)

days, the Long-Term Steward may request a meeting with the IRT to resolve the failure. Such meeting shall occur within thirty (30) days or a longer period if approved by the IRT. Based on the outcome of the meeting, or if no meeting is requested, the IRT may designate a replacement Long-Term Steward in writing by amendment of this long-term management plan. If the Long-Term Steward fails to designate a replacement Long-Term Steward, then such public or private land or resource management organization acceptable to and as directed by the IRT may enter onto the Bank property in order to fulfill the purposes of this long-term management plan.

C Amendments

The Long-Term Steward, property owner, and the IRT may meet and confer from time to time, upon the request of any one of them, to revise the long-term management plan to better meet management objectives and preserve the conservation values of the Bank property. Any proposed changes to the long-term management plan shall be discussed with the IRT and the Long-Term Steward. Any proposed changes will be designed with input from all parties. Amendments to the long-term management plan shall be approved by the IRT in writing shall be required management components and shall be implemented by the Long-Term Steward.

If the VDGIF or USFWS determine, in writing, that continued implementation of the longterm management plan would jeopardize the continued existence of a state or federally listed species, any written amendment to this long-term management plan, determined by either the VDGIF or USFWS as necessary, shall be a required management component and shall be implemented by the Long-Term Steward.

D Notices

Any notices regarding this long-term management plan shall be directed as follows:

Long-Term Steward (name, address, telephone and FAX)

Roanoke River Wetlands and Stream Mitigation Bank, LLC 5209 Center Street Williamsburg, VA 23188

Property Owner (name, address, telephone and FAX)

Danny Thompson 8591 Floyd Hwy Copper Hill, VA 24079

IRT Chair:

Vinny Pero U.S. Army Corps of Engineers

Mitigation Banking Instrument Addendum 1

Norfolk District – Charlottesville Field Office 920 Gardens Blvd. Suite 103-B Charlottesville, VA 22901 (434) 973-0568

IRT Co-Chair:

Sarah Woodford Virginia Department of Environmental Quality 629 East Main Street, 9th Floor P.O. Box 10009 Richmond, VA 23240 (804) 698-4069

IRT Members:

Jennifer Stanhope U.S. Fish and Wildlife Service 6669 Short Lane Gloucester, Virginia 23061 (804) 824-2408

Stephanie Kubico U.S. Environmental Protection Agency, Region 3 3EA30, 1650 Arch Street Philadelphia, Pennsylvania 19103-2029 (215) 814-2762

Amy Ewing Virginia Department of Game and Inland Fisheries 4010 West Broad Street Richmond, Virginia 23230 (804) 367-2733

Edward Zimmer Virginia Department of Forestry 900 Natural Resources Drive, Suite 800 Charlottesville, Virginia 22903 (434) 977-5193

VI Funding and Task Prioritization

A Funding

The Property Analysis Record (PAR) report (Appendix B) summarizes the anticipated costs of long- term management for the Bank. These costs include estimates of time and funding needed to conduct the basic monitoring site visits and reporting, trash removal, fence repair,

etc. and a prorated calculation of funding needed to fully repair and/or replace fences and other structures every 10-50 years. The total annual funding anticipated is approximately \$4,731 (\$3,448 original + \$1,283 Bank Expansion), therefore, with the current annual estimated capitalization rate of 4.5% the total endowment amount (The Long-Term Management Fund) required will be \$105,124 (\$76,622 original + \$28,502 Bank Expansion).

Kaufman & Canoles, P.C. shall hold the endowment principal and interest monies (The Long-Term Management Fund) as required in the MBI, which consists of monies that are paid into it in trust, and is appropriated to fulfill the purposes for which payments into it are made. These interest monies will fund the long-term management, enhancement, and monitoring activities on Bank lands in a manner consistent with this long-term management plan.

B Task Prioritization

Due to unforeseen circumstances, prioritization of tasks, including tasks resulting from new requirements, may be necessary if insufficient funding is available to accomplish all tasks. The Long-Term Steward and the IRT shall discuss task priorities and funding availability to determine which tasks will be implemented. In general, tasks are prioritized in this order: 1) required by a local, state, or federal agency; 2) tasks necessary to maintain or remediate the Bank Site (including unauthorized impacts); and 3) tasks that monitor resources, particularly if past monitoring has not shown downward trends. Equipment and materials necessary to implement priority tasks will also be considered priorities. Final determination of task priorities in any given year of insufficient funding will be determined in consultation with the IRT and as authorized by the IRT in writing.

C Enforcement

The IRT and its authorized agents shall have the right to inspect the Property and take actions necessary to verify compliance with this Long-Term Management Plan. The Long-Term Management Plan herein shall be enforceable by any proceeding at law or in equity or administrative proceeding by the IRT, including the Corps or DEQ. Failure by any agency (or owner) to enforce the Long-Term Management Plan contained herein shall in no event be deemed a waiver of the right to do so thereafter.

Roanoke River Wetlands and Stream Mitigation Bank Mitigation Banking Instrument Addendum 1

IN WITNESS WHEREOF the Sponsor and the various IRT agencies have executed this Long Term Management Plan on the date herein below last written.

Min G, Kun Long-Term Steward

8-19-17 Date

IN WITNESS WHEREOF, the parties hereto have executed this Long Term Management Plan on the date herein below last written.

INTERAGENCY REVIEW TEAM

the IRT Chair By U.S Army Corps of Engineers, Norfolk District By: Willim T William Bagalaion Brouch Its: Chief

<u>\$/3/2017</u> Date

Roanoke River Wetlands and Stream Mitigation Bank Mitigation Banking Instrument Addendum 1

IN WITNESS WHEREOF, the parties hereto have executed this Long Term Management Plan on the date herein below last written.

INTERAGENCY REVIEW TEAM

By the IRT Chair:

Virginia Department of Environmental Quality By: DAND C. DANS Its: Din., Ofc. of WETCHOS & SMARL PROTECTION

Mitigation Banking Instrument

Appendix A Invasive Species Fact Sheets (see approved MBI dated May 2011)



Project #		Project Nan	ne	Locality	Cowardin	HUC	Date	Reach #	Reach	RCI		
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Project #	10.00	Project Nam	10	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length	RCI		
4189	A CONTRACTOR OF A	MB - Adden		Franklin		03010103	1/31/13	R2	427			
Name	(s) of Evalua SW.GH	stor(s)	Steam Nan	e and information	ation	Tributary to	Reed Creek			-		Project
marth			a she bl			THOUGH Y C	Reed Creek		Second Page	-		Credits
Restorati	ON: includes F	Priority 1, 2, and	3 restoration ac	livities. Does not in	clude buffer width.	2				312.0	Credit per foot	0
ist Reaches	that will rece	ive full Resto	ration:	L CLES			Total length of I	ull Restoration	0	Service of the	1	
Enhance	ment With	n Instream	n Structu	res: Addressing	Streambank Stabi	lity, Grade Cont	rol (Vanes, Weirs, Sk	p-Pools), Construct	ed Riffles		Credit per foot	
and the second se	th Affected b		and the second se				Length Affected by	y Instream Structur	res		0.3	0
							Crede	a = Stream Length X 0.	3		-	
mance	Inent: Addre	ssing Streamba		Mit	Access to Floodpla tigation Categ		101. W-5-55		1.447 8001."			
	Credit Pe	er Length	Mechani	cal Bank Work Pick One	Per Length		May	Biological Ban Be Cumulative	k Work Per Length			
ctivities	Habitat S	itructures	Create Ba	nkfull Bench	Lay Back	Banks	Bio-Remediati	on Techniques	Stream			
Credit per	-		- Cancer	4.5		and the second s						
foot per bank		.1	C	0.15	0.		0	.1	0.0	18		
Right Bank	Length Credit>		retraction in					0	1			
	2.0			-			-			CREDIT	-	
Left Bank	Length Credit >							0	Rt Bank > Lt Bank >	0.00	Credit SUM of banks	0
			-					STATISTICS TO AND THE OWNER	redit) for all area	_		
Ciparian /	Areas: Asse	iss the proposed	100 fool buffer	on both banks bas	ed on the activity p	roposed. Enter	the percentage of an	and the credit be	low. (Widths of	buffer above		
Activities	establi	er Re- shment f invasives)	Buffer Plan	nting - Heavy	Buffer Plant	ting - Light	Preservation High Queilty, Restoration, Enhancement	Preservation Low Quality	Buffer a within pre wic	servation		
redit for 0'-100'	0	.4	C	.38	0.2	:9	0.14	0.07	0	1		
Credit for beyond 199'	0	.2	0	.19	0.1	5	0.	07	0			
-		Calcu	lation of "Goal"		ach side (SAR lengt) ST 100' - Mitigat			square feet				
		ne vegetative co vo vegetative cor		ained			Ensure the sums of	/ % Riparian Blocks I 100	WRAT			
1.10.1	Area #						C. Martine	1	1			
Right Bank	Sq, Footage % Area	32985 77%	0%	0%	0%	0	0%	77%	-			
8.00	Credit>	0.14 HQ Pres	0.07 LQ Pres	0.29	0.38 Heavy Plant	0.4			-			
	Area # Sq. Footage	44387		angent i stattt		ATTURNE COL			- (r / r	CREDIT	\$	
Left Bank	% Area Credit>	104%	0%	0%	0%	0%	0%	104%	Rt Bank >	0.11	Credit	
	Cieulo	0.14	0.07	0.29	0.38	0.4					0.13 s (benks done separate	56 M
1600		a			st 100' - Mitigati				AVE of credit for	banka X lengt	th of project	
		ne vegetative co vo vegetative cor				Subtract 0.03 Subtract 0.06	Ensure the sums o equa	/ % Riparian Blocks I 100				
Right Bank	Sq, Footage	82290							1			
	% Area Credit>	193% 0.07	0% 0.07	0%	0%	0%	0%	193%				
	Area #	Pres	<u> </u>	Light Plant	Heavy Plant	Invasive cor	ntrol					
Left Bank	Sq, Footage % Area	115066 269%	0%	0%	0%	0%	0%	269%	Rt Bank >	CREDIT 0,13	S Credit	
	Credit >	0.07	0.07	0.15	0.19	0.2			Lt Bank >	0.19	0.16	68
									1(% Area X Cre AVE of credit for		s (banks done separate th of project	991
	Adjustme	ent Factors	These factor	Adjustmen	nuitiplier to length i t Factor Categ	of a reach for wi	hich they apply	and the second	Record Al	= length /c	redit beneath	
	Art	ivity		reatened, or d Species or	Livestock I		Watamhad	Preservation	the AF	activity.	Provide a ation of the	
	Lan T		Com	nunities			and the second s	he and a second s	applicab	le site coi	nditions that ent and justify	
		edit gth Affected	U.1	- 0.3	0.1 -	0.3		- 0.3 27		AF credit		
	Con	Credit>	Ve and can ann	v to more then one	reach Fach mer	h can have more	0	.3		S. and	Credits >	128
	10	ons are cumulati	ve and can app	y to more than one	reach Each reac	n can have mon	e than one Adjustmen	II. Discourse			X Credit) for all areas	I LONG
							Total C	ompensation	Credit Pro	vided by	Drainet	252

				1	Methodology Cowardin	1			Reach			
oject#	F	Project Nam	6	Locality	Class.	HUC	Date	Reach #	Length	RCI		
4189	RRI of Evaluation	MB - Adden		Franklin e and Informa		03010103	1/13/13; revised 4/30/14	R3	9068			
	SW,GH	tor(a)	Steam Mam		1001	Tributary to	Reed Creek			1		Project
-to unit ou		2010 N. 1910				-				-	- 19 A - P	all way
		ve full Resto		vities. Does not in	iclude buffer width		Total length of F		a desi da tu	0	Credit per foot	0
hancem	ent With	Instream	Structur	BS' Addressing	Pinnamhani, Stahi	Why Cando Cont	ol (Vanes, Weirs, Sta	s = Stream Length X 1	AND INCOME.		Credit per foot	
			tructures (jus Structures:	tify length):	2017	30	Length Affected by	y Instream Structur		0	0.3	0
hancem	ent: Addres	sing Streember		0	Length: Access to Floodpla		Croza	s = Sinsam Longor A (J.	,			
				Mit	tigation Categ		-			199		
	Credit Pe	r Length	Mechanic	al Bank Work Pick One	Per Length		May	Biological Bank Be Cumulative				
ivities	Habitat St	tructures	Create Bar	kfull Bench	Lay Baci	k Banks	Bio-Remediati	on Techniques	Stream Plant			
edit per ot per bank	0.	1	0.	.15	0.	.1	o	.1	0.0	9		
ht Bank	Length Credit>		0				0	0	1			
										CREDITS		
ft Bank	Length Credit >	n nation	0 0.15			10.	0	0	Rt Bank > Lt Bank >	0.00	Credit SUM of banks	0
narian A	1885 Arres	the oronaed	100 feet buffer	on both banks bas	and on the activity	ampored Enter	the percentage of an	and the second sec	edit) for all area	-	e separately)	-
will be determ	ined below)	ee ave hanhoedd	T 100 100(Duller -	ULI DOUL DELIKS DES	ten on me activity p	proposed. Enter (The percentage of an	ba and the credit bei	ow. (vviduna or i T	Dumer above		
tivities (1	Buffe establis removal of	and the second se	Buffer Plan	ting - Heavy	Buffer Plan	ting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer a within pre: wid	servation		
it for 0'-100'	0.	4	0	.38	0.2	29	0.14	0.07	0	1		
redit for yond 100'	0.	2	0	.19	0.1	15	0.	07	0			
		Calcu	ulation of "Goal" r		ach side (SAR lengt ST 100' - Mitigai			square feet				
-			ommunity maint: mmunities maint	ined			Ensure the sums o	f % Riparian Blocks af 100	I			
	Area #						Balli	1	10 L			
ht Bank	Sq. Foolage % Area	527638 58%	9174	0%	0%	0	0%	59%				
	Credit>	0.14 HQ Pres	0.07 LQ Pres	0.29 Light Plant	0.38 Heavy Plant	0.4 Invasive con	trol	-				
	Area# Sq, Foolage	726704	11504			1				CREDITS	8	
ft Bank	% Area	80%	1%	0%	0%	0%	0%	81%	Rt Bank >	0.08	Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4		1			0.10 (banks done separate	907 小/
	~	ne uncetative an	ommunity mainta	Outside Fir	st 100' - Mitigat	ion Catagoria	S Engine the sum	(N Disaria Ministra	AVE of credit for	penks X longth	or project	
- T	Tw Area #	o vegetative co	mmunities maint	ained		Subtract 0.03 Subtract 0.06	Ensure the sums o	1 % Riparian Blocks 1 100	ļ			
ht Bank	Sq, Footage	932183							1			
-	% Area Credit>	103% 0.07	0%	0%	0%	0%	0%	103%	J			
T	Area #	Pres		Light Plant	Heavy Plant	Invasive con	trol					
aft Bank	Sq. Footage % Area	1233830 136%	0%	0%	0%	0%	0%	136%	Rt Bank >	CREDIT	S Credit	
	Credit >	0.07	0.07	0.15	0.19	0.2			Lt Bank >	0.10	0.09 (banks done separate	816
1z	diuetme	nt Factor	R' These fast	an applied on	multiplier to length	do mot for			AVE of credit for			
É	-Maonue			Adjustmen	t Factor Cate	gories	mun unay apply			iength /c activity.	redit beneath Provide a	
1	Acti	vity	Endangers	eatened, or d Species or	Livestock	Exclusion	Watershed	Preservation	narrativ	e explana	tion of the ditions that	
			Com	nunities	0.4	0.2	1 04	- 0.3			int and justify	E(
	Cre	dit	0.1	- 0.3	0.1	-0.3	0.1	-0.5	44			
-		dit gth Affected Credit>	0.1	- 0.3	0.1 -	- 0.3	0.1	- 0.5	the	AF credit o		0

	RCI	Reach	Reach #	Date	HUC	Cowardin	Locality	Ie	Project Nam	P	Project #
3		249	R3a	1/31/13	03010103	Ciass.	Franklin	dum	MB - Adden	RRI	4189
			and diameter	Road Creek	Tributary to	ition	and informa	Steam Name	tor(s)	The Manual State	Name(
	TT SOUTH			Reed Cleek	Thouary to		California (19		the state of the s	on,on	
Credit per foot		No. of the local division of the local divis			in the second	clude buffer width.	ities. Does not in				
1	0							ration:	ve full Resto	that will recei	ist Reaches
				The state of the s			OR! Address	Structur	Instroop	nont With	Inhancer
	0				and the second se	Streambank Stabi					
	Card -		= Stream Length X 0.3	Credite	30	Length:	0	Structures:			
		att applies		ALCONDUCTION OF THE OWNER				nk Slability, Entre	aing Streamba	nent: Addres	nhancer
		Work	Biological Bank		ories	O PHILE COMPANY	al Bank Work	Mechanic	and the second		
	Bank	and the second second	Be Cumulative P	May		Per Length	Pick One	CALL COLOR	r Length	Credit Pe	
			on Techniques	Bio-Remediatio	Banks	Lay Back	kfull Bench	Create Ban	tructures	Habitat Si	ctivities
	, 1	0.09	1	0		0.1	15	0.	1	0.	Credit per foot per
											bank
			0	0				0		Length	Right Bank
		Rt Bank >	0					0.15		Length Credit >	Left Bank
and the second s			Σ(Length X Cre								
	uffer above	w. (Widths of b	a and the credit belo	e percentage of area	roposed. Enler th	ed on the activity p	n both banks bas	100 foot buffer o	ss the proposed	Areas: Asses	Riparian /
2 C 1					- Barris					(initiad below)	OU WIT DE GELER
			Preservation	Preservation High Quality,	ing light	Buffer Blant	Hing - Henny	Buffer Plan			Activities
			Low Quality	Restoration, Enhancement	ing « cigin	Durier Flam	ung -neavy				Activities
		0	0.07	0.14	9	0.2	38	0.	4	0.	Credit for 0'-100'
		0									Credit for beyond 100'
			square feet	24,908	times 166') >>>>	ch side (SAR lengt	parian buffer for ea	l ulation of "Goal" ri	Calc	1.0012	anyona rea
	-	100				T 100' - Mitigat					,
					Subtract 0.03 Subtract 0.06						
									1	Area #	- 12-
			86%	0%		0%	0%			Sq, Footage % Area	Right Bank
					0.4	0.38	0.29	0.07	0.14	Credit>	0.011
				rol	Invasive cont	Heavy Plant	Light Plant	LQ Pres	C	Area #	
		Rt Bank	78%	0%	0%	0%	0%	0%		Sq, Foolage % Area	Left Bank
0.12	0.12	Lt Bank >	10/8	078	0,4	0.38	0.29	0.07	0.14	Credit>	1220
		he fine		Ensure the sums of	on Categories	t 100' - Mitigat		ommunity mainta	ne vegetative co	0	
		-			Subtract 0.06	Name of Street, or Str	alned	mmunities maint	o vegetative co	Tw	1
								1000	74744	Sq, Footage	Right Bank
			300%	0%	0%	0%	0%	0% 8.07	300%	% Area Credit>	Night Bellik
				rol	0.2 Invasive cont		Light Plant	0.07	Pres		
									10203	Area # Sq, Foolage	Left Bank
	CREDITS			0%	0%	0%	0%	0%	41%	% Area	Len Bank
Credit	0.21	Rt Bank >	41%	0 / 0		0.19	0.15	0.07	0.07	Credit >	
	0.21 0.03	Lt Bank >			0.2						
Credit 0.12 (banks done separate	0.21 0.03 () for all areas (Lt Bank >									-
Credit 0.12 (banks done separate	0.21 0.03 I) for all areas (banks X langth	Lt Bank > Σ(% Area X Credit AVE of credit for b			of a reach for whi	nuttiplier to length	are applied as a r	S: These factors	nt Factor	Adjustme	
Credit 0.12 (banks done separate of project redit beneath Provide a	0.21 0.03 (7) for all areas (benks X length length /cr activity. F	Lt Bank > \$(% Area X Credit AVE of credit for b Record AF the AF :		ch they apply	of a reach for whi ories	nutiplier to length t Factor Categ	Adjustmen eatened, or	Rere, Thr	Line Ming	A	
Credit 0.12 (banks done separate of project redit beneath Provide a tion of the ditions that	0.21 0.03 2) for ell areas (benks X length length /cr activity. F e explanat e site cond	Lt Bank > I(% Area X Credit AVE of credit for b Record AF the AF a narrative applicable			of a reach for whi ories	nuttiplier to length	Adjustmen	Rare, Thr Endangere	Line Ming	Adjustme	
Credit 0.12 (banks done separate of project Provide a tion of the ditions that nt and justify	0.21 0.03 2) for ell areas (benks X length length /cr activity. F e explanat e site cond	Lt Bank > I (% Aree X Credit AVE of credit for b Record AF the AF narrative applicable warrant an	Preservation	ch they apply Watershed F 0.1 -	of a reach for whi o ries Exclusion	nutiplier to length t Factor Categ	Adjustmen eatened, or d Species or	Rare, Thr Endangere Comm 0.1	ivity edit	Acti	
Credit 0.12 (banks done separate of project Provide a tion of the ditions that nt and justify	0.21 0.03 (7) for ell areas (benks X length length /cr activity. F e explanat e site cont adjustmen	Lt Bank > I (% Aree X Credit AVE of credit for b Record AF the AF narrative applicable warrant an	Preservation - 0.3	ch they apply Watershed P	of a reach for whi o ries Exclusion	nulliplier to length t Factor Categ Livestock I	Adjustmen eatened, or d Species or nunities	Rare, Thr Endangere Comm 0.1	ivity	Acti	
	1 Credit per foot 0.3 Credit SUM of banks separately) Credit Credit 0.12 Danks dons expended	CREDITS 0.12 Credit per foot 0 1 Credit per foot 0 0.3 Credit per foot 0 0.3 Credit 0.00 SUM of banks (banks done separately) after above Pa not prvation h CREDITS 0.12 Credit 0.11 0.11 0.12 Credit 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.1	Length KCI 243	Reach # Length RCI R3a 249 R3a 249 Credit per foot uill Restoration 0 stream Langth X 1 0 -Pools), Constructed Riffles Credit per foot Instream Structures 0 0 0 -Stream Langth X 0.3 Biological Bank Work Be Cumuletive Per Length on Techniques Stream Bank Plantings 1 0.09 0 Rt Bank > 0.00 CREDITS 0 Rt Bank > 0.00 Credit for all areas (banks done separately) a and the credit below. (Widths of buffer above Preservation Buffer area not Within preservation Low Quality Within preservation Vit Rim X C CREDITS 78% Rt Bank > 0.12 Credit Li Bank > 0.12 Rt Bank > 0.12 Rt Bank > 0.12 Sty Area X Condt for el areas (banks Condt core separately) 86% Ye areat Condt for banks X length of project Ye areat fo	Date Readt # Length RCI 1/31/13 R3a 249 Reed Creek Credit per foot Total length of Full Restoration 0 1 Crodit = Stream Length X 10 0 1 I (Vanes, Weix, Step-Pools), Constructed Rittles Credit per foot Length Affected by Instream Structures 0 0.3 Crudits = Stream Length X 0.3 Credit per foot Biological Bank Work Nay Be Cumuletive Per Length Bio-Remediation Techniques Stream Bank Plantings 0.0 0 0 0 0.09 CREDITS 0.00 0.09 Credit areas (banks done separately) re percentage of area and the credit below. (Widths of buffer abov Preservation Lit Bank > 0.00 0.07 0 0 0.07 0 0 0.07 0 0 0.07 0 0 0.08 Credit below. (Widths of buffer abov Preservation Lit Bank > 0.12 Credit per face Credit below. (Widths of buffer abov <t< td=""><td>Nucl Date Reach # Length RCI 03010103 1/31//3 R3a 249 Tributary to Reed Creek Credit per feet Total length of Full Restoration 0 1 Credit per feet Total length of Full Restoration 0 1 Credit per feet Credit a Stream Length X I 0 Biological Bank Work May Be Cumuletive Per Length Image: Stream Bank Plantings 1 0.0 O 0 O 0 O 0 O Credit Credit per feet Stream Bank Biological Bank Work May Be Cumuletive Per Length Image: Stream Bank Plantings 1 O O O O O O O O O O <!--</td--><td>Class. HUC Date Reach # Length RCI 03010103 1/31/13 R3a 249 Thibutary to Reed Creek Credit per foot </td></td></t<>	Nucl Date Reach # Length RCI 03010103 1/31//3 R3a 249 Tributary to Reed Creek Credit per feet Total length of Full Restoration 0 1 Credit per feet Total length of Full Restoration 0 1 Credit per feet Credit a Stream Length X I 0 Biological Bank Work May Be Cumuletive Per Length Image: Stream Bank Plantings 1 0.0 O 0 O 0 O 0 O Credit Credit per feet Stream Bank Biological Bank Work May Be Cumuletive Per Length Image: Stream Bank Plantings 1 O O O O O O O O O O </td <td>Class. HUC Date Reach # Length RCI 03010103 1/31/13 R3a 249 Thibutary to Reed Creek Credit per foot </td>	Class. HUC Date Reach # Length RCI 03010103 1/31/13 R3a 249 Thibutary to Reed Creek Credit per foot Credit per foot				

Compens	Unified Stream					1		-	
ct # Project Name	Locality	Cowardin Class	HUC	Date	Reach #	Reach	RCI		
9 RRMB - Addendum	Franklin	01688.	03010103	1/31/13	R5	Length 928	A REAL PROPERTY		
	lame and Informa	ation		and the state of the	entre a survey of	1			
SW,GH			Tributary to	Reed Creek			-		Project Credits
ration: Includes Priority 1, 2, and 3 restoratio	n activities. Does not in	urissia buffar sakitis						Credit per foot	0
ches that will receive full Restoration:				Total length of F	and the second se			1	
	-	-	-	The second second	s = Streem Longth X 1				
ncement With Instream Structures	and the second se	Streambank Stabi	lity, Grade Contr		p-Pools), Construct Instream Structur	and the second second second	and a	Credit per foot	0
Longer Another by matcom or determs	Quality inight,				s = Stream Length X 0.			0.3	0
ncement: Addressing Streambank Stability,					a sulla	144166			
Mech	Mit Ianical Bank Work	tigation Categ	ories		Biological Bank	Work	n Athling		
Credit Per Length	Pick One	Per Length		May	/ Be Cumulative	Per Length			
es Habitat Structures Create	Bankfull Bench	Lay Back	Banks	Bio-Remediati	on Techniques	Stream Planti			
per 0.1	0.15	0.	1	0	.1	0.0	,		
k			-		-				
Bank Length Credit>			tion control		0]			
ant Length	- Transa				0	Rt Bank >	CREDIT	S Credit	
ank Credit >						Lt Bank >	0.00	SUM of banks	0
In Anna					THE OWNER AND ADDRESS	redit) for all areas	Contractorio	e separately)	
ian Areas: Assess the proposed 100 foot b e determined below)	uffer on both banks bas	ed on the activity p	roposed. Enter t	he percentage of an	sa and the credit bel	ow. (Widths of b	uller above		
Buffer Re-				Preservation		Buffer an	ea not	,	
ties establishment Buffer (removal of invasives)	Planting - Heavy	Buffer Plant	ting - Light	High Quality, Restoration,	Preservation Low Quality	within pres	ervation		
(removal of invasives)				Enhancement		wiat	n		
0'-100' 0, 4	0.38	0.2	9	0.14	0.07	0			
for 0.2	0.19	0.1			07	0			
Calculation of "G	oal" riperian buffer for a	ach side (SAR lengt) ST 100' - Mitigat	211		square feet	-			
One vegetative community n Two vegetative communities	aintained			Ensure the sums o	f % Riparian Blocks Il 100				
Area #]	1			
Bank Sq, Footage 96493	0%	0%	0	0%	104%				
Credit> 0.14 0.07	0.29	0.38	0.4	1.44 - 11 - 11 - 11 - 11 - 11 - 11 - 11	1047	1			
HQ Pres LQ Pres	Light Plant	Heavy Plant	Invasive con	trol					
ank % Area 101% 0%	0%	0%	0%	0%	101%	Rt Bank >	O.15	S Credit	
Credit> 0.14 0.07	0.29	0.38	0.4			Lt Bank >	0.14	0.15	139
		st 100' - Mitigati	on Cata and			AVE of credit for L		(benks done seperate of project	
1/2 All and a state of the		at IVV - Mitidati		Ensure the sums o	f % Riparian Blocks I 100	T		.]	
One vegetalive community n Two vegetative communities	naintained							18	
Two vegetative communities	naintained		Subtract 0.06	equa					
Two vegetative communities; Araa #	naintained maintained 0%	0%		equa	178%	1		1	
Two vegetative communities; Area #	naintained maintained 0% 70.15	0% 0.19	Subtract 0.06	0%]			
Two vegetative communities; Area # Area # Sank \$\$, Footage % Area 178% % Area 178% Credit> 0.07 Pres Area # Area # \$\$, Footage 444979 \$\$	naintained maintained 0%	0%	Subtract 0.06	0%]	CREOR	s	
Two vegetative communities; Area # Area # Sq. Footage 155364 % Area 178% 0% Credit> 0.07 0.07 Pres Pres 3 ank Sq. Footage 144979 % Area 156% 0%	alinteined maintained 7 0.15 Light Plant	0% 0.19 Heavy Plant 0%	Subtract 0.06 0% 0.2 Invasive con	0%		Rt Bank >	CREDIT 0.12	Credit	
Two vegetative communities; Area # 165364 Sank % Area 178% 0% Credit> 0.07 0.07 0.07 Pres Pres 34.97 34.97	alinteined maintained 7 0.15 Light Plant	0% 0.19 Heavy Plant	Subtract 0.06 0% 0.2 Invasive con	0% trol	178%	Lt Bank >	0.12 0.11		111 b)
Two vegetative communities; Area # 53, Footage 165364 % Area 178% 0% Credit> 0.07 0.07 Pres Area # 53, Footage 14979 % Area 156% 0% Credit> 0.07 0,07	alinteined maintained 7 0.15 Light Plant 0% 7 0.15	0% 0.19 Heavy Plant 0% 0.19	Subtract 0.06 0% 0.2 Invasive con 0% 0.2	0% trol 0%	178%	Lt Bank >	0.12 0.11 It) for all times	Credit 0.12 (banks done separate	
Two vegetative communities / Area # 165364 Sank % Area 178% 0% Credit> 0.07 0.07 0.07 Pres Pres 9% Area # 50% 0% ank Sq. Footage 144979 % 0% Credit> 0.07 0.07 Area # Sq. Footage 144979 % Area 156% 0% Credit> 0.07 </td <td>Naintained maintained 0% 7 0.15 Light Plant 0% 7 0.15 sctors are applied as a Adjustmen</td> <td>0% 0.19 Heavy Plant 0% 0.19</td> <td>Subtract 0.06 0% 0.2 Invasive con 0% 0.2 of a reach for wh</td> <td>0% trol 0%</td> <td>178%</td> <td>Lt Bank > I(% Area X Credit AVE of credit for I Record AF</td> <td>0.12 0.11 It) for all i real banks X longi length /c</td> <td>Credit 0.12 (banks done separate h of project redit beneath</td> <td></td>	Naintained maintained 0% 7 0.15 Light Plant 0% 7 0.15 sctors are applied as a Adjustmen	0% 0.19 Heavy Plant 0% 0.19	Subtract 0.06 0% 0.2 Invasive con 0% 0.2 of a reach for wh	0% trol 0%	178%	Lt Bank > I(% Area X Credit AVE of credit for I Record AF	0.12 0.11 It) for all i real banks X longi length /c	Credit 0.12 (banks done separate h of project redit beneath	
Two vegetative communities; Area # 56, Footage 165364 % Area 178% 0% Credit> 0.07 0,07 Pres Area # 59, Footage 144979 % Area 156% 0% Credit> 0.07 0,07 Area # Sq. Footage 144979 3% 3% Credit> 0% Credit 0% Credit 0% Credit Credit 0% Credit Credit 0% Credit Credit 0% Credit	alintained maintained 7 0,15 Light Plant 0% 7 0,15	0% 0.19 Heavy Plant 0% 0.19 multiplier to length	Subtract 0.06 0% 0.2 Invasive con 0% 0.2 of a reach for wh ories	0% trol 0%	178%	LI Bank > I(% Area X Credi AVE of credit for Record AF the AF narrative	0.12 0.11 t) for all small banks X length length /c activity. e explana	Credit 0.12 (banks done separate h of project redit beneath Provide a tition of the	
Two vegetative communities; Area # 53 Sank S.q. Footage 165364 % Area 178% 0% Credit> 0.07 0.07 Pres Pres Area # Sq. Footage 144979 % % Area 156% 0% Credit> 0.07 0.07 % Area 156% 0% Credit> 0.07 0.07 % Area 156% 0% Credit> 0.07 0.07	Adjustment Adjustment Adjustment Threatened, or gered Species or ommunities	0% 0.19 Heavy Plant 0% 0.19 multiplier to length t Factor Catego Livestock I	Subtract 0.06 0% 0.2 Invasive con 0% 0.2 of a reach for wh portes Exclusion	0% trgl 0%	178% 156%	LI Bank > I(% Area X Credi AVE of credit for Record AF the AF narrative applicable	0.12 0.11 t) for all a real banks X length length /c activity. e explana e site cor	Credit 0.12 (banks done separate h of project redit beneath Provide a	
Two vegetative communities; Area # 53 Sank S.4, Footage 165364 % Area 178% 0% Credit> 0.07 0.07 Pres Area # Sq. Footage 144979 % Area 156% 0% Credit> 0.07 0.07 Area # Sq. Footage 144979 Sq. Footage 144979 % Area 156% 0% Credit> 0.07 0.07 Adjustment Factors: These for Activity Rare Activity Endant	Initialined maintained 0% 7 0.15 Light Plant 10% 7 0.15 Initial data at a Adjustmen Threatened, or gered Species or	0% 0.19 Heavy Plant 0% 0.19 multiplier to length t Factor Categ	Subtract 0.06 0% 0.2 Invasive con 0% 0.2 of a reach for wh portes Exclusion	0% trgl 0%	178%	Lt Bank > 104 Area X Credit AVE of credit for it Record AF the AF narrative applicable warrant an	0.12 0.11 t) for all a real banks X length length /c activity. e explana e site cor	Credit 0.12 (banks done separate h of project redit beneath Provide a tition of the ditions that ent and justify	

Project #		Project Nam		Locality	Cowardin Class.	HUC	Date	Reach #	Reach	RCI		
4189	RR	MB - Adden	dum	Franklin	VI688.	03010103	1/31/13	R5a	Length 25			
Name	(s) of Evalua SW,GH	tor(s)	Steam Nam	e and informa	ition	Tributary to	Reed Creek					Project
		and here										Credits
estorati	ON: Includes P	riority 1, 2, and	3 restoration acti	vities. Does not in	clude buffer width.					- Harton	Credit per foot	0
st Reaches	that will rece	ive full Resto	ration:				Total length of F	ull Restoration			1	
							n					
					Streambank Stabi	iity, Grade Contr	ol (Vanes, Weirs, Sta				Credit per foot	-
iscuss Leng	th Affected b	y Instream St	tructures (jus	tify length):				Instream Structure = Stream Length X 0.3			0.3	0
nhanaa		-				-	100			-	,	
mance	ment: Addre	ssing Streamba	nk Stability, Entri		Access to Floodpla igation Categ						- 1	
-	Canadia Da	a Lonath	Mechanic	al Bank Work	a stational s			Biological Bank				
1	21.52.14	r Length		The second second	Per Length	and the second	Strate and	Be Cumulative	Stream	Bank		
ctivities	Habitat S	tructures	Create Bar	kfull Bench	Lay Baci	k Banks	Bio-Remediati	on Techniques	Planti			
Credit per foot per		.1		.15	0.	4		.1				
bank					υ.		U		0.0			
light Bank	Length			(incasign)			1	0				
	Credit>		- Long lar							CREDIT	e	
.eft Bank	Length		Delley Const					0	Rt Bank >	0.00	S Credit	
	Credit >							P.0. 0.11-	Lt Bank >	0.00	SUM of banks	0
linories	Areas	None of the owner		-	-	-			edit) for all area.			
ipanan	Areas: Asse mined below)	ss the proposed	100 foot buffer	on both banks bas	ed on the activity p	proposed. Enler (he percentage of an	a and the credit bek	ow. (Widths of b	uffer above		
						The seal	Bracementing			THE	1	
Activities		er Re- shment	Buffer Plan	ting - Heavy	Buffer Plant	ting - Light	Preservation High Quality,	Preservation	Buffer an within pres			
		f invasives)				a mgm	Restoration, Enhancement	Low Quality	wid			
and its floor and a second	-	4		28		0					4	
redit for 0'-190' Credit for		.4		.38	0.2		0.14	0.07	0			
beyond 100'	0	.2		.19	0.1			07	0		-	
-	4	Calc	sation of "Goal" r		sch side (SAR lengti T 100' - Mitigal			square feet			.	
			mmunity mainta	ined	n ivv - miuga	Subtract 0.03	Ensure the sums of		-		.	
-	1	to vegetative con	nmunities maint	ained		Subtract 0.06	equa	100				
	Area # Sq, Footage	0				Ō						
Right Bank	% Area	0%	0%	0%	0%	0%	0%	0%				
	Credit>	0.14 HQ Pres	0.07 LQ Pres	0.29 Light Plant	0.38 Heavy Plant	0.4	treal		T.1			
	Area #			Eddor (_ KOLIK	Tory Flant	Invesive CON						
Left Bank	Sq. Footage % Area	0%	0%	0%	0%	0%	0%	0%	Rt Bank >	CREDIT 0.00	S Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4		0,0	Lt Bank >	0.00	0.00	0
									Σ(% Area X Cred AVE of credit for		s (banks done separate h of project	b)
-		On uncatalism	mmunity mainta	Outside Fin	st 100' - Mitigat			W Disarie - Disat]	
_	Ťv		mmunities maint			Subtract 0.03 Subtract 0.06	Ensure the sums o equa	f % Riparian Blocks I 100				
	Area # Sq, Footage	0				1						
Right Bank	% Area	0%	0%	0%	0%	0%	0%	0%]			
	Credit>	0.07 Pres	0.07	0.15 Light Plant	0.19 Heavy Plant	0.2	trol					
	Area #				and the second				r	0000		
Left Bank	Sq, Footage % Area	0	0%	0%	0%	0%	0%	0%	Rt Bank >	CREDIT 0.00	S Credit	
	Credit >	0.07	0.07	0.15	0.19	0.2			Lt Bank >	0.00	0.00	0
							laupen		Σ(% Area X Cred AVE of credit for		s (banks done separate th of orniect	b)
	Adjustme	nt Factor	: These factors	are applied as a r	nuitiplier to length	of a reach for wi	hich they apply			1755		1 1922
	4. 10	deri a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adjustmen	t Factor Cate	ories	T. Contraction				redit beneath Provide a	
	Act	ivity		eatened, or d Species or	Livestock	Exclusion	Watershed	Preservation	narrativ	e explan	ation of the	
			Comr	- 0.3		10 mm - 11 - 1					nditions that ent and justify	
	-				01.	• 0.3	0.1	- 0.3			units Juouly	
	Charles and the second	edit ath Affected	0.1	- 0.3	0.1 -	010	0.1	- 0.0	the A	F credit	chosen.	
	Charles and the second	edit gth Affected Credit>	0.1	- 0.3	0.1		0.1		the A	F credit	chosen. Credits >	0
	Stream Len	gth Affected Credit>					than one Adjustmen		the A			0

Project #		Project Nam	e	Locality	Cowardin	HUC	Date	Reach #	Reach	RCI		
4189	RR	MB - Adden	dum	Franklin	Class.	03010103	1/31/13	R6	Length 156			
	s) of Evalua	tor(s)	Steam Nam	e and inform	ation					Sec. and Sec.		
	SW,GH		1			Tributary to	Reed Creek					Project
estoratio	DII: Includes P	nority 1, 2, and	3 restoration acti	vities. Does not in	clude buffer width						Credit per foot	0
	that will recei						Total length of F				1	
nhancer	nent With	Instraan	Structur	'08' Adda	Olympic and an in		ol (Vanes, Weirs, Ste	# = Streem Length X 1				
			tructures (just		SIDEMIDENK SUBD	my, Grade Cons	1	p-Pools), Construct y Instream Structur			Credit per foot 0.3	0
		_			-		Cradit	s = Stream Longth X 0.	3		10.0	
nhancer	nent: Addres	ssing Streamba	nk Stability, Entre		Access to Floodple tigation Categ		and the second s		a land			
	Credit Pe	r Length	Mechanic	al Bank Work	Per Length		Max	Biological Bani Be Cumulative				
ctivities	Habitat S	1	Create Ban	kfull Bench	Lay Baci	k Banks	Contraction of the	on Techniques	Stream			
Credit per									Planti	ngs		
foot per bank	0.	1	0.	.15	0.	.1	0	.1	0.0	9		
light Bank	Length					Providence de		0				
- Sales	Credit>									CREDITS	ŝ	
Left Bank	Length Credit >							0	Rt Bank > Lt Bank >	0.00	Credit SUM of banks	0
							le complexité à	Σ(Length X Ci	edit) for all area			
liparian /	Areas: Asse	as the proposed	100 foot buffer	on both banks ba	sed on the activity p	proposed. Enlar l	he percentage of an	ea and the credit bei	ow. (Widths of b	ouffer above		
	D. #			- 5	UP IS AT	I See and	Preservation					
Activities	Buffe establis (removal of	shment	Buffer Plan	iting - Heavy	Buffer Plan	ting - Light	High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer an within pres wid	servation		
redit for 0'-100'	0	4	0	.38	0.2	29	0.14	0.07	0			
Credit for beyond 100'	0.	2	0.	.19	0.1	15	0.	07	0		1	
-		Calcu	dation of "Goal" r		ach side (SAR lengt			square feet				
			mmunity mainta mmunities maint	ained	ST 100' - Mitigat	Subtract 0.03	Ensure the sums o	f % Riparian Blocks			1	
	Area #	o vagatauve coi	nnunnes maine	ameg		Subtract 0.06	equa	al 100				
Right Bank	Sq, Footage	20591	01/	A.11		0		-				
	% Area Credit>	132% 0.14	0%	0%	0% 0.38	0%	0%	132%				
_	Area #	HQ Pres	LQ Pres	Light Plant	Heavy Plant	Invasive con	trol					
Left Bank	Sq, Footage % Area	24335 156%	0%	0%	0%	0%	0%	156%	Rt Bank >	0.18	S Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4			Lt Bank >	0.22	0.20	31
1.1.1	30 1 I								Σ(% Area X Cred AVE of credit for		(banks done separate of project	n/)
	0	ne vegetative co	mmunity mainta mmunities maint	ained	st 100' - Mitigat	Subtract 0.03	Ensure the sums o	W Riparian Blocks			1	
	Area #		monines main			Subtract 0.06	equa	al 100	1			
Right Bank	Sq, Footage % Area	17072 109%	0%	0%	0%	0%	0%	109%	1			
	Credit>	0.07 Pres	0.07	0.15 Light Plant	0.19 Heavy Plant	0.2 Invasive con		-				
	Area # Sq. Foolage	30587	-	entry is a second	. ING FY I IGHT	andane col				CREDIT		
	% Area	196%	0%	0%	0%	0%	0%	196%	Rt Bank >	0.08	S Credit	
Left Bank	Credit >	0.07	0.07	0.15	0.19	0,2		1	Lt Bank > I(% Area X Cred	0.14 fit) for all areas	0.11 (banks done separate	17 か)
Left Bank	and the second second		- 11 F.S.					-	AVE of credit for			-
Left Bank	Adland	nt Casta	the second se		multiplier to length		hich they apply	Localities	Record AF	length /c	redit beneath	
Left Bank	Adjustme	nt Factor	S: These factors		t Factor Categ	gories			44. 4-			
Left Bank		nt Factor	Rare, Thr Endangers	Adjustmen eatened, or id Species or		about 22	Watershed	Preservation	narrativ	activity. e explana	Provide a ation of the	
Left Bank	Act		Rare, Thr Endangere Comm	Adjustmen extend, or	t Factor Cate	Exclusion		Preservation - 0.3	narrativ applicabl warrant an	activity. e explana le site con adjustme	Provide a ation of the aditions that ant and justify	
Left Bank	Act	ivity	Rare, Thr Endangere Comm	Adjustmen extened, or id Species or nunities	t Factor Categ	Exclusion	0.1	MARSHER TO THE T	narrativ applicabl warrant an	activity. e explana le site con	Provide a ation of the aditions that ant and justify	47

		0.01	Reach	Reach #	Date	for use in Vi	Cowardin	Locality		Project Nam		Project #
		RCI	Length				Class.	A DESCRIPTION OF		MB - Adden		
1			1054	R7	1/31/13	03010103	tion	Franklin e and Informa			s) of Evalua	4189 Name(
Proj					Reed Creek	Tributary to				1.57	SW,GH	
1 0	Credit per foot						clude buffer width.			dented to end	OD' helydae f	Postorati
	1		1	the state of the s	Total length of F		ciude Duiter widen.	vees, Loes not in			that will rece	
				s = Streem Longth X 1	No. of Concession, Name							
1	Credit per foot 0.3			the second se	l (Vanes, Weirs, Ste Length Affected by	lity, Grade Contro	Streambank Stabi		ructures (just			
	0.3			= Stream Length X 0.:				ary arrigan).		,		
	S				and the second		Access to Floodpla		nk Stability, Entre	using Streamba	nent: Addre	Enhancer
		1.00		Biological Bank		ories	igation Categ	al Bank Work	Mechanic			The second second
		Bank	Per Length Stream	Be Cumulative	Manager and the state of the	and the second	Per Length		NUCL STORES		Credit Pe	
			Planti	on Techniques	Bio-Remediatio	Banks	Lay Back	kfull Bench	Create Ban	tructures	Habitat S	ctivities
		9	0.0	.1	0.	1	0.1	15	0.	.1	0	Credit per foot per bank
				0				1			Length	Right Bank
-	Ś	CREDIT							1	Entering	Credit>	
0	Credit SUM of banks	0.00	Rt Bank > Lt Bank >	0			C. C		1		Length Credit >	Left Bank
			edit) for all areas	LEIST Length X Cr		MBI.		dinitait.				
1		buffer above	ow. (Widths of b	a and the credit bek	ne percentage of are	roposed. Enter ti	ed on the activity p	on both banks bas	100 foot buffer o	ss the proposed	Areas: Asse mined below)	Riparian /
			Buffer ar	in the second	Preservation		E. S. Lin			r Re-	Buffe	
		servation	within pres widt	Preservation Low Quality	High Quality, Restoration, Enhancement	ing - Light	Buffer Plant	ting - Heavy	Buffer Plan	shment	And a second sec	Activities
			0	0.07	0.14	9	0.2	38	0			Credit for 0'-100'
									υ.	A	0	
			0	07	0.0	5	0.1	19		.4 .2	_	Credit for beyond 100'
			0	07 aquare feet	105,400	times 100") >>>>	ich side (SAR lengti	parian buffer for e	0.	.2	_	
			0	aquare feet	105,400 S	itimes 100") >>>> Ion Categorie		parian buffer for ex	0.	.2 Calcu	0	
			0	aquare feet 1 % Riparian Blocks	105,400	itimes 100") >>>> Ion Categorie	ich side (SAR lengti	parian buffer for ea WITHIN FIRS	0. Itation of "Goal" ri	.2 Calcu ne vegetative co	0 0 Tw	
			0	aquare feet 1 % Riparian Blocks	105,400 S Ensure the sums of	itimes 100") >>> ion Categorie Subtract 0.03	ich side (SAR lengti	parian buffer for ea WITHIN FIRS	0. Itation of "Goal" ri mmunity mainta	.2 Calcu ne vegetative co	0	beyond 106"
			0	aquare feet 1 % Riparian Blocks	105,400 S Ensure the sums of	itmes 100") >>>> ion Categorie Subtract 0.03 Subtract 0.06 0 0%	och side (SAR lengt) T 100' - Mitigat	parian buffer for ex WITHIN FIRS ined ained	0. Itation of "Goal" n mmunity mainta nmunities maint 0%	2 Calco ne vegetative co o vegetative con 102499 97%	0 Tw Area # Sq, Footage % Area	
			0	square feet % Riparian Błocks I 100	105,400 S Ensure the sums of equal	times 100") >>>> ion Categorie Subtract 0.03 Subtract 0.06	och side (SAR lengt) T 100' - Mitigat 0% 0.38	WITHIN FIRS ined ained 0% 0.29	0. Itation of "Goal" ri mmunity mainta nmunities maint	2 Calco ne vegetative co o vegetative cor 102499	0 Tw Area # Sq. Footage % Area Credit>	beyond 106"
	5	CREDIT	0	square feet % Riparian Błocks I 100	105,400 S Ensure the sums of equal	times 100") >>>> ion Categoria Subtract 0.03 Subtract 0.06 0 0% 0% 0.4	och side (SAR lengt) IT 100' - Mitigat 0% 0.38	WITHIN FIRS	0. Itation of "Goal" rf mmunity mainta mmunities maint nmunities maint 0% 0.07	2 Calci ne vegetative co o vegetative co 102499 97% 0.14	0 Tw Area # Sq, Footage % Area	Right Bank
	Credit	CREDIT	Rt Bank >	square feet % Riparian Błocks I 100	105,400 S Ensure the sums of equal	times 180">>>> ion Categorie Subtract 0.03 Subtract 0.06 0 0% 0.4 Invasive cont 0%	ch alde (SAR lengt) 17 100' - Mitigat 0% 0.38 Heavy Plant 0%	parlan buffer for ex WITHIN FIRS ined ained 0% 0.29 Light Plant 0%	0. Itation of "Goal" ri mmunity mainta mmunities maint 0% 0.07 LQ Pres 0%	2 Calco ne vegetative co o vegetative cor 102499 97% 0.14 HQ Pres 93331 89%	0 Tw Area # Sq. Footage % Area Credit> Area # Sq. Footage % Area	beyond 196*
13 nstaty/	Credit 0.13 (banks done separat	CREDIT 0.14 0.12	Rt Bank > Lt Bank > Z[% Area X Cred	square feet 1% Riparian Blocks 100 97%	195,499 5 Ensure the sums of equal 0%	times 180") >>>> ion Categorie Subtract 0.03 Subtract 0.06 0% 0.4 Invasive con	uch side (SAR lengt) IT 100' - Mitigat 0% 0,36 Heavy Plant	partan buffer for er WITHIN FIRE ined ained 0% 0.29 Light Plant	0. Itation of "Goal" ri mmunity mainta mmunities maint 0% 0.07 LQ Pres	2 Calco calco covegetative cor 102499 97% 0,14 HQ Pres 93331	0 Tw Area # Sq. Footage % Area Credit> Area # Sq. Footage	Right Bank
	Credit 0.13 (banks done separat	CREDIT 0.14 0.12	Rt Bank > Lt Bank >	square feet (% Riparian Blocks 100 97% 89%	185,490 Ensure the sums of equal 0% trol	o times 100") >>>> ion Categorie Subtract 0.03 Subtract 0.06 0 0 0 0 0 0 1 Nvasive cont 0% 0.4 0 0% 0.4	ch alde (SAR lengt) 17 100' - Mitigat 0% 0.38 Heavy Plant 0%	parlan buffer for ex WITHIN FIRS ined eined 0% 0.29 Light Plant 0% 0.29 Cutside Fir	0. Itation of "Goal" rt mmunky mainta mmunkies maint 0% 0.07 LQ Pres 0% 0.07	2 Calc: ne vegetative co o vegetative co 102499 97% 0.14 HQ Pres 93331 89% 0.14	0 Tw Area # Sq, Footage % Area Credit> Xrea # Sq, Footage % Area Credit>	Right Bank
	Credit 0.13 (banks done separat	CREDIT 0.14 0.12	Rt Bank > Lt Bank > Z[% Area X Cred	aquare feet % Riparian Blocks 100 97% 89% % Riparian Blocks	185,490 Ensure the sums of equal 0% trol	a times 100") >>>> ion Categoria Subtract 0.03 Subtract 0.06 0 0 0 0 0 1 nvasive cont 0 0 0 0 0 4	o% 0% 0.38 Heavy Plant 0% 0.38	arian buffer for ex WITHIN FIRS Ined arned 0% 0.29 Light Plant 0% 0.29 Outside Fir- ined	0. Itation of "Goal" ri mmunity mainta mmunities maint 0% 0.07 LQ Pres 0%	2 Calco calc	0 Tw Ares # Sq. Footage % Area Credit> Area # Sq. Footage % Area Credit>	Right Bank
	Credit 0.13 (banks done separat	CREDIT 0.14 0.12	Rt Bank > Lt Bank > Z[% Area X Cred	aquare feet % Riparian Blocks 100 97% 89% % Riparian Blocks	195,490 5 Ensure the sums of equal 0% trol 0%	utmes 1007 >>>> ion Categorie Subtract 0.03 Subtract 0.05 0 0 0 0 0 0.4 Invasive cont 0% 0.4 on Categories Subtract 0.03	o% 0% 0.38 Heavy Plant 0% 0.38	arian buffer for ex WITHIN FIRS Ined arned 0% 0.29 Light Plant 0% 0.29 Outside Fir- ined	0. Itation of "Goal" ri mmunity mainta mmunities maint 0% 0.07 LQ Pres 0% 0.07	2 Calco calc	0 Tw Area # Sq, Footage % Area Credit> Credit> Credit> Credit>	Right Bank
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100' will be deter	mined below)						1		1		-	
A	and the second se	er Re-					Preservation High Quality,	Preservation	Buffer a			
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Credit for 0'-1 00').4).38		29	0.14	0.07	0			
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Credit per foot			Ull Restoration	Total length of F	•	nclude buffer width.	vities. Does not in				Restoratio	
redit per foot	1.000	ed Riffles	p-Pools), Constructe	ol (Vanes, Weirs, Ste	liity, Grade Contro	Streambank Stabi	'es: Addressing	n Structu	n Instream	nent With	Enhancer	
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				ified Stream				orm 3)				
Project #	F	Project Nam	City modifie	Locality	Cowardin	HUC	Date	Reach #	Reach	RCI		
4189		MB - Adden		Franklin	Class.	03010103	1/31/13	R9	Length 176			
Name(s) of Evaluator(s)			Steam Nam	e and Informa	tion				La contra		s1	
	SW,GH					Tributary to	Reed Creek			1		Project
Restoratio	DN: Includes P	riority 1, 2, and	3 restoration acti	vities. Does not in	clude buffer width						Credit per foot	0
	that will recei						Total length of I				1	
Enhancer	nont With	Instroop	Structure				And the second second	ts = Stream Length X 1	1.84			-
			tructures (just		Streambank Stat	omy, Grade Contr	T	ep-Pools), Constructe y Instream Structur		And the second	Credit per foot 0.3	0
					12.31			ts = Stream Length X 0.:				
Enhancer	nent: Addres	ising Streamba	nk Stability, Entre	inchment Ratios,			in a start of the	and the second second				
2010-000			Mechanic	al Bank Work	ligation Cate	gones		Biological Bank				
					Per Length			y Be Cumulative	Stream Bank		-	
Activities	Habitat S	ructures	Create Bankfull Bench		Lay Bac	k Banks	Bio-Remediation Techniques		Plantings			
Credit per foot per	0.	0.15		0.1		0.1		0.09				
bank	Length											
Right Bank	Credit>	all and a second			in the second se		1999 B					
Left Bank	Length							0	Rt Bank >	CREDITS 0.00	5 Credit	
	Credit >	a China					EN EN SCOL	Trith X O	Lt Bank >		SUM of banks	0
			-						edil) for all area		e separately)	
00' will be deter	MICAS: Assemined below)	ss the proposed	i 100 foot buffer (on both banks bas	ed on the activity	proposed. Enter t	he percentage of an	ea and the credit bel	ow. (Widths of t	ouffer above		
	Buffe	- De	Children in Co			We had	Preservation	E MARCE				
Activities	establis (removal of	shment	Buffer Plan	ting - Heavy	Buffer Planting - Light		High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer area not within preservation width			
Credit for 0'-100'	0.	4	0.	.38	0.	29	0.14	0.07	0			
Credit for beyond 100'	0.	2	0.	.19	0.15		0.	.07	0			
	-	Calc	ulation of "Goal" n	iparian buffer for a				aquare fest				
			ommunity mainta	lined	st 100 - Mitiga	Subtract 0.03	Ensure the sums of	of % Riparian Blocks				
	Tw Area #	o vegetative co	mmunities malnt	ained	Carlos Carlos	Subtract 0.06	equi	al 100				
Right Bank	Sq, Footage	23723				0						
	% Area Credit>	135% 0.14	0%	0%	0%	0%	0%	135%] .			
	Area #	HQ Pres	LQ Pres	Light Plant	Heavy Plant	Invasive con	trol					
Left Bank	Sq. Foolage % Area	20821 118%	0%	0%	01/		08/	4409/	Di Deste a	CREDIT		
	Credit>	0.14	0.07	0.29	0%	0%	0%	118%	Rt Bank > Lt Bank >	0.19	Credit 0.18	32
									Σ(% Area X Cred AVE of credit for		(banks done separate of project	sly)
	-	ne vecetalise o	ommunity mainta		st 100' - Mitiga	tion Categorie		of % Riparian Blocks		,, e tonfa]	
	Ти		mmunities maint		-	Subtract 0.06		al 100				
Right Bank	Area # Sq, Foolage	0			a survey of							
-ogn bank	% Area Credit>	0% 0.07	0%	0% 0.15	0%	0%	0%	0%	1			
		Pres	0.01	Light Plant	Heavy Plant	Invasive con	trol					
Left Bank	Area # Sq, Footage	7552								CREDIT	Ś	
Len Dank	% Area Credit >	43%	0%	0%	0%	0%	0%	43%	Rt Bank > Lt Bank >	0.00	Credit 0.02	4
	Groun #	0.01	0.01	0.10	0.19	0.2			I (% Area X Cree	iit) for all areas	(banks done separate	
14010	Adjustme	nt Factor	R' Three (anti-	then my-lt*	- diel-	damate	lahat	IL HERRICH	AVE of credit for	banka X length	n of project	-
	Aujusune	ant Factor	e. I nese lactors	are applied as a Adjustmen	t Factor Cate		non they apply				redit beneath	
	Act	ivity		eatened, or d Species or			Watershed Preservation		the AF activity. Provide narrative explanation of			
	and interest	de la com	Comm	nunities	and a shipple	2010			applicable site conditions the warrant an adjustment and just			
	Credit Stream Length Affected		0.1 - 0.3		0.1 - 0.3		0.1 - 0.3			AF credit o		
		Credit>								Credits >		0
÷	Сге	dits are cumula	tive and can appl	y to more than on	e reach. Each rea	ich can have mon	s than one Adjustme	nt Factors		ΣLength 2	X Credit) for all areas	the second second
							Total C	ompensation	Credit Prov	dided by	Drainet	36
and the second s		COLUMN T		THE SHIT		-	-					
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		Class.	(Constraints				Project #					
1/31/13	03010103	ition		15 C			4189 Name(
Reed Creek	Tributary to					SW,GH						
		aluda kuffasu data	iiine Dave and h		iority 1 2 and 1	OD" Includes F	Restorativ					
Total length of F	-		nus, coca na n									
	lity. Grade Contro	Streambank Stabil	es: Addressing	n Structur	Instream	ment With	Enhancen					
Length Affected by		The second second	and the second se	and the second sec								
Credits												
oligi anti-				nk Stability, Entre	sing Streambar	ment: Addre	Enhancen					
Biological Bank May Be Cumulative F		S. S. Martin	al Bank Work	Mechanic	Length	Credit Pe						
				Create Ban			ctivities					
	. During	and buon					Credit per					
0.	1	0.1	15	0.	1	0	foot per bank					
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2002	•					Credit?						
ne percentage of are	roposed. Enter th	ad on the activity p	on both banks bas	100 foot buffer o	s the proposed	Areas: Asse	Riparian A					
Dranamation		2			and the		-					
High Quality, Restoration, Enhancement	ting - Light	Buffer Plant	ting - Heavy	Buffer Plan	hment	establi	Activities					
0.14	9	0.2	38	0.	4	0	Credit for 0'-100'					
0.0	5	0.1	19	0.	2	0.	Credit for beyond 100'					
	the second second		States of the second second	station of "Goal" ri	Calcu							
	ion Categories	T 100' - Mitigati										
Ensure the sums of	Subtract 0.03			mmunity mainta								
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Ensure the sums of equal 0%	Subtract 0.03 Subtract 0.06 0% 0% 0.4		0% 0.29	nmunities mainta	228330	Tw Area # Sq, Footage % Area Credit>	Right Bank					
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Project #	John July	Project Nam	18	Locality	Cowardin Class.	HUC	Date	Reach #	Reach Length	RCI		
4189		MB - Adden		Franklin		03010103	1/31/13	R10b	60		1	
Name	s) of Evalua SW,GH	tor(s)	Steam Nam	e and Inform	ation	Tributary to	Reed Creek		Contraction of the			Projec Credits
Restoratio	OD: Includes B	viority 1, 2, and	3 restoration acti	hities. Does not in	nclude buffer width			Print Laster		TINS B	Credit per foot	0
	that will rece			indus. Docs int a				Full Restoration its = Stream Length X 1	0		1	
Inhancer	ment With	Instream	n Structur	'es: Addressing	Streambank Stab	ility, Grade Contr	oi (Vanes, Weirs, St	ep-Pools), Construct	led Riffles	RIT	1 Credit per foot	
iscuss Leng	th Affected b	y Instream St	tructures (jus	tify length):	1.0			y Instream Structu ts = Stream Longth X 0	a strategy of the second se			0
inhancer	ment: Addre	using Streamba	nk Stability, Entr		Access to Floodplain tigation Categories			- The state	-		0.3 0	
	Credit Pe	r Length	Mechanic	al Bank Work			Ma	Biological Ban y Be Cumulative				
ctivities	Habitat S		Create Bar	kfull Bench	Lay Bac	k Banks		ion Techniques	Stream Bank			
Credit per foot per	0	.1	0	.15	0.	.1		0.1	0.0			
bank	Length						0					
Right Bank	Credit>			1944-1941-01						CREDIT		
Left Bank	Length Credit >							0	Rt Bank >	0.00	Credit	
	Credit >							Σ(Length X C	Lt Bank >	0.00 s (banks dor	SUM of banks a separately)	0
Riparian A	Areas: Asse mined below)	ss the proposed	100 fool buffer	on both banks ba	sed on the activity	proposed. Enter t	he percentage of an	rea and the credit be	low. (Widths of b	uffer above		
Activities	Buffe establis (removal of		Buffer Plan	iting - Heavy	Buffer Plan	ting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer ar within pres	ervation		
Credit for 0'-100'	0	.4	0	.38	0.	29	0.14	0.07	0	100 100	-	
Credit for beyond 100'	0	.2	0	.19	0.	15	0	.07	0			
		Calcu	station of "Goal" (VALUE CONTRACTOR	sach side (SAR lengt			aquare feet	11.944144	_		
-			ommunity maint: mmunities main	ained	51 100 - midga		Ensure the sums of	of % Riparian Blocks al 100			1	
	Area #	0		-		0						
Right Bank	Sq, Foolage % Area	0%	0%	0%	0%	0%	0%	0%				
	Credit>	0.14 HQ Pres	0.07 LQ Pres	0.29 Light Plant	0.38 Heavy Plant	0.4 Invasive con	itrol					
	Area # Sq, Footage	0								CREDIT	\$	
Left Bank	% Area	0%	0%	0%	0%	0%	0%	0%	Rt Bank >	0.00	Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4			Lt Bank >	0.00 it) for all enses	0.00 (banks done separate	0 Hy)
			and the	Outside Fi	st 100' - Mitiga				AVE of credit for I	banks X lengt	of project	
	Tv		ommunity maint mmunities main	ained			Ensure the sums of	of % Riparian Blocks al 100				
	Area # Sq, Footage	0	10000									
Right Bank	% Area	0%	0%	0%	0%	0%	0%	0%	1			
	Credit>	0.07	0.07	0.15	0.19	0.2						
11/1	Area #	Pres		Light Plant	Heavy Plant	Invasive con						
Left Bank	Sq, Footage % Area	0	0%	0%	0%	0%	0%	0%	Rt Bank >	CREDIT 0.00	S Credit	
	Credit >	0.07	0.07	0.15	0.19	0.2			Lt Bank >	0.00	0.00	0
				Sec 18				- Al	I(% Area X Cred AVE of credit for		(banks done separate	Hy)
	Adjustme	nt Factor	S: These factors	are applied as a	multiplier to length	of a reach for wh	nich they apply		100			
	Distance of the local		Rare, Thr	Adjustmen reatened, or	t Factor Cate	gories		Demonstration	the AF	activity.	redit beneath Provide a ition of the	
	Act	ivity		d Species or nunities	Livestock	Exclusion	watershed	Preservation	applicabl	e site cor	ditions that	
	-	edit	0.1	- 0.3	0.1	- 0.3		- 0.3		F credit	ent and justify chosen.	
	-	gth Affected	0.1	- 0.3	0.1	- 0.3		60			chosen.	40
17	Stream Len	gth Affected Credit>	a server					60 D.3		VF credit o		18

1000	C	Comp			Methodology		orm (Fo	orm 3)				
Project #		Project Nam	e	Locality	Cowardin Class,	HUC	Date	Reach #	Reach Length	RCI		
4189		MB - Adden	dum	Franklin	01230,	03010103	1/31/13	R11	247			
Name	(s) of Evaluation SW,GH	tor(s)	Steam Nam	e and inform	ation	Tributary to	Reed Creek					Project
		1	and the local de					uten sant		N.		Credits
	ON: Includes F			vities. Does not in	clude buffer width		Transfer and the set		1		Credit per foot	0
IST REACHES	diat will rece	TAG INII KGSLO	rauon:					Full Restoration ts = Stream Length X 1	D	-	1	
Enhancer	nent With	Instream	n Structur	'es: Addressing	Streambank Stab	ility, Grade Contr	ol (Vanes, Weirs, St	ap-Pools), Construct	d Riffles		Credit per foot	
Discuss Leng	th Affected b	y Instream Si	tructures (just	tify length):				y Instream Structur ts = Stream Length X 0			0.3	0
Enhancer	ment: Addre	ssing Streamba	nk Stability, Entre		Access to Floodpl			COLUMN TRACTOR				
	Or dia 2		Mechanic	al Bank Work		Jones		Biological Bank				
Activities		tructures	Create De-	Pick One	Per Length	k Banka		y Be Cumulative	Per Length Stream	Bank		
Credit per	i avitat 3		Greate Dall	miun Deficit	Lay Bac	n Defiks	Dio-Kemediati	on rechniques	Planti	nga		
foot per bank	0	.1	0.	.15	0.	.1	C	0.1	0.0	9	-	
Right Bank	Length Credit>							0				
	Length			R. C.		T III		0	Rt Bank >	CREDIT	S Credit	
Left Bank	Credit >	-					TO NOTE TO	0	Lt Bank >	0.00	SUM of banks	0
		1. 		39				Σ(Length X Cr	edit) for all area	s (banks don	e separately)	
Riparian a	Areas: Asse	ss the proposed	100 foot buffer	on both banks ba	and on the activity	proposed. Enter t	he percentage of an	ea and the credit bel	ow. (Widths of I	ouffer above		
Activities	establi	er Re- shment f Invasives)	Buffer Plan	iting - Heavy	Buffer Plan	ting - Light	Preservation High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer an within pres	ervation		
Credit for 6'-100'	0	A	0	.38	0,	29	0.14	0.07	0			
Credit for beyond 100'	0	.2	0	.19	0.	15	0.	.07	0			
		Calco	ulation of "Goal" r	iparian buffer for a	ach side (SAR lengt	th times 100") >>>>	24,70	square feet				
- 196.25	C	ne vegetalive co	ommunity mainta		ST 100' - Mitiga	tion Categorie Subtract 0.03		of % Riparian Blocks				
		o vegetative con	mmunities maint	lained		Subtract 0.06		al 100				
Right Bank	Area # Sq, Footage	24815	-			0						
Kignt Bank	% Area Credit>	100%	0%	0%	0% 0.38	0%	0%	100%	1			
	-	HQ Pres	LQ Pres	Light Plant	Heavy Plant	0.4 Invasive con	trol				1	
Left Doub	Area # Sq, Foolage	21810								CREDIT	ŝ	
Left Bank	% Area	88%	0%	0%	0%	0%	0%	88%	Rt Bank >	0.14	Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4		1	Lt Bank >	0,12 (it) for all areas	0.13 (banks done separate	32
and a set of			-	Outside El	st 100' - Mitiga	tion Catanoda			AVE of credit for			
1.11			ommunity mainta mmunities maint	sined	ive - minipa	Subtract 0.03 Subtract 0.06	Ensure the sums of	of % Riparian Blocks al 100			1	
1047	Area #					SUDVACI U.06	equ					
Right Bank	Sq, Footage	10054	64/	04/	68/	P #/	691	4101	1			
~ ~	% Area Credit>	41% 0.07	0%	0%	0%	0%	0%	41%				
-	Area #	Pres	1	Light Plant	Heavy Plant	Invasive con	trol					
Left Bank	Sq, Footage	29470					L			CREDIT	5	
wann	% Area Credit >	119%	0%	0%	0%	0%	0%	119%	Rt Bank > Lt Bank >	0,03	Credit 0.06	15
		0.01	0.01	0.15	0.15	0.2	-		E(% Area X Cres	lit) for all areas	(banks done separat	
	Adjustme	nt Easter	P! These fact		and the file of the		lah a		AVE of credit for	benks X lengt	h of project	
	MUNICIPAL	all ractor	. These factors		multiplier to length It Factor Cate		ich they apply				redit beneath	
			T		1						Provide a	
		in dita :		eatened, or	1.1						ition of the 👘	
		ivity	Endangere	eatened, or of Species or nunities	Livestock	Exclusion	Watershed	Preservation	applicab	le site con	ation of the aditions that	
	Act	edit	Endangere Comr 0.1	d Species or		- 0.3		- 0.3	applicab warrant an	le site con adjustme	nditions that ent and justify	
	Act	edit gth Affected	Endangere Comr 0.1	d Species or nunities		100		The second second	applicab warrant an	le site con	nditions that ent and justify chosen.	
	Act Cr Stream Ler	edit gth Affected Credit>	Endangere Comn 0.1	nd Species or nunities - 0.3	0.1	- 0.3		- 0.3	applicab warrant an	adjustme AF credit	nditions that ent and justify	0

				orm 3)	ginia (FC	-	Methodology			comp	C	
		RCI	Reach Length	Reach #	Date	HUC	Cowardin Class.	Locality	18	Project Nam	F	Project #
			827	R12	1/31/13	03010103		Franklin		MB - Adden		4189
Proje					Reed Creek	Tributary to	200N	e and Informa	Steam Rame	tor(s)	(s) of Evalua SW,GH	Hanie
0	Credit per foot						clude buffer width.	vities. Does not in	3 restoration activ	riority 1, 2, and 3	ON: Includes P	Restoratio
	1	-	,	ull Restoration	Total length of F						that will recei	
Credit per foot 0.3 0		d Riffles	p-Pools), Constructed	(Vanes, Weirs, Ster	lity, Grade Contro	Streambank Stabi	es: Addressing	n Structur	Instream	ment With	nhancen	
		15	Instream Structure = Stream Length X 0.3	Length Affected by				tructures (just				
	Televine .	-		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Access to Floodpla		nk Stability, Entre	ssing Streambar	ment: Addres	nhancer	
			Biological Bank	Biological		tigation Categ	al Bank Work	Mechanic			-	
		Bank	Per Length Stream I	Be Cumulative P	In the local sectors		Per Length			11	Credit Pe	- Acorda
			Plantin	on Techniques	Bio-Remediatic	Banks	Lay Back	kfull Bench	Create Ban	tructures	Habitat Si	ctivities Credit per
		0.09	1	0.	1	0.	0.15		.1	0.	foot per bank	
				0	and the second se				SPACE ON		Length Credit>	Right Bank
		CREDITS				_		-		_		
0	Credit SUM of banks		Rt Bank > Lt Bank >	0							Length Credit >	Left Bank
	separately)	COLUMN TWO IS NOT	edit) for all areas	a and the credit belo	e percentage of are	roposed. Enter th	ed on the activity p	on both banks bas	100 fool buffer o	ss the proposed	Areas: Asses	Riparian /
0				1		-					mined below)	00' will be deter
		ervation	Buffer are within prese widt	Preservation Low Quality	Preservation High Quality, Restoration, Enhancement	ing - Light	Buffer Plant	ting - Heavy	Buffer Plant	shment	Buffe establis (removal of	Activities
		-	0	0.07	0.14	9	0.2	38	0.	4	0.	redit for 0'-100'
			0	70	0.0	5	0.1	19	0.	2	0.	Credit for beyond 100'
		-		square feet			ach side (SAR lengt ST 100' - Mitigat		station of "Goal" rig	Calcu	teleti e	_
					Ensure the sums of equal		ST 100 - Milligar	ined	mmunity mainta mmunities mainta			
								and share			Area #	
				92%	0%	0	0%	0%	0%	75800 92%	Sq. Footage % Area	Right Bank
				32 /	078	0.4	0.38	0.29	0.07	0.14	Credit>	
					ol	Invasive cont	Heavy Plant	Light Plant	LQ Pres	HQ Pres	Area #	
		CREDITS							01/	61041	Sq, Footage	Left Bank
99	0.12	0.13	Rt Bank >	74%	0%	0%	0%	0%	0%	74% 0.14	% Area Credit>	
	banks done separatel) for all areas (i	∑(% Area X Credit,									
	of project	anks X langth c	AVE of credit for b				st 100' - Mitigati	Outside Fir				
				% Riparian Blocks 100	Ensure the sums of equal	Subtract 0.03 Subtract 0.06		ined ained	mmunity mainta mmunities mainta	ne vegetative co vo vegetative con	Tw	
										155268	Area # Sq. Foolage	
				188%	0%	0%	0%	0%	0%	188%	% Area	Right Bank
						0.2	0.19	0.15	0.07	0.07	Credit>	-
					0	Invasive cont	Heavy Plant	Light Plant		Pres	Area #	
		CREDITS	Di Davit i T	44004	08/	08/	0.8/	01/	0%	93090 113%	Sq, Footage % Area	Left Bank
		0.13	Rt Bank >	113%	0%	0%	0%	0%	0%	0.07	76 Area Credit >	
91	Credit 0.11						0.00		-13			
91	0.11 (banka done separate)) for all areas (I									And I want to be a set of	140
	0.11 (banka done separate)) for all areas (I	E(% Aree X Credit AVE of credit for b				No. of Concession, Name		at These for the	nt Eastan	Adiustina	
	0.11 Denks done separatel of project edit beneath) for all areas (i anks X length d length /cre	AVE of credit for b		h they apply	of a reach for whi	nultiplier to length o	are applied as a r Adjustmen	: These factors	nt Factors	Adjustme	
	0.11 Danks done separated of project edit beneath Provide a tion of the) for all areas (i anks X length d length /cre activity. P e explanati	AVE of credit for b Record AF the AF a narrative		h they apply Watershed P	ories	nultiplier to length t Factor Categ Livestock I	Adjustmen extened, or d Species or	Rare, Thre Endangered	-	Adjustme	
	0.11 Danks done separate of project Provide a tion of the ditions that nt and justify) for all areas (i anks X length /cre activity. P e explanati e site conc adjustmer	AVE of credit for b Record AF the AF a narrative applicable warrant an a	reservation	Watershed P	ories Exclusion	t Factor Categ Livestock I	Adjustmen satened, or d Species or sunities	Rare, Thre Endangered Comm	ivity	Acti	
	0.11 Danks done separate of project Provide a tion of the ditions that nt and justify) for all areas (i anks X length / length /cre activity. P e explanati e site conc	AVE of credit for b Record AF the AF a narrative applicable warrant an a	Preservation		ories Exclusion	t Factor Categ	Adjustmen extened, or d Species or	Rare, Thre Endangered Comm	-	Acti	
	0.11 Danks done separate of project Provide a tion of the ditions that nt and justify) for all areas (i anks X length /cre activity. P e explanati e site conc adjustmer F credit cl	AVE of credit for b Record AF the AF a narrative applicable warrant an a	Preservation • 0.3 • 7 3	Watershed P	Exclusion	t Factor Categ Livestock I 0.1 -	Adjustmen eatened, or d Species or sunities - 0.3	Rare, Thre Endangered Comm 0.1	wity edit gth Affected Credit>	Acti Cre Stream Leng	

h RCI Project Credit ser foot 0	
Credits	
Credit per foot 0 1 Credit per foot	
	0
	Credit per foot
-	
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ały)	
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aly)	
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			orm 3)		-				omp	C	
	RCI	Reach	Reach #	Date	HUC	Cowardin	Locality	0	roject Name	P	Project #
		1674	R14	1/13/13; revised 3/31/14	03010103	Class.	Franklin	lum	IB - Addend	RRM	4189
		Concernanting			Tributary to		and Information	Steam Name	or(s)	s) of Evaluat SW,GH	Name(s
	DD alla	ille state state									
Credit per foot	02	1000	ull Destoration	fotal length of E	-	ciude buffer width.	ities. Does not in				the second se
	32							auon.	Te full Restor	anat will receiv	131 110001103 1
Credit per foot	Structures	-Pools), Constructe	(Vanes, Weirs, Step	ity, Grade Contro	Streambank Stabi	BS: Addressing	Structure	Instream	nent With	Enhancen	
0.3		Structures	Instream Structure	ength Affected by				ructures (justi	ALC: NOT THE DOWN TO BE A	and the second s	
	al Bank Work Istive Per Length Inues Stream Bank	= Stream Longth X 0.3	Credits		Length:		Structures:	1			
			teril discount and				k Stability, Entrer	sing Streamban	nent: Addres	Enhancen	
				Unica	The second	al Bank Work	Mechanica			ļ	
		and the second s					1.2.5			STATES OF	
	the second s	Stream Bank	n Techniques	Bio-Remediation Techniques		Lay Back Banks		Create Banl	ructures	Habitat St	ctivities
	Stream Bank	1	0.1		0.1 0.1		0.15		1	0.	foot per bank
Plantings	0							Length	Right Bank		
								Length			
	0								Left Bank		
	Lt Bank > 0.00 SUM of banks	Σ(Longth X Cre									
tone separately)	uffer above	w. (Widths of b	a and the credit belo	e percentage of are	roposed. Enter Ih	and on the activity p	n both banks ba	100 fool buffer o	is the proposed	Areas: Asses mined below)	Riparian A
	ervation	within pres	Preservation Low Quality	Preservation High Quelity, Restoration, Enhancement	iing - Light	Buffer Plant	ting - Heavy	Buffer Plant	hment	establis	Activities
1 1		0	0.07	0.14	9	0.2	38	0.	4	0.	Credit for 9'-100'
1		0	07	0.0	5	0.1	19	0.	2	0.	Credit for beyond 100'
1			square feet	167,400	h times 100') >>>>	ach side (SAR lengt	parian buffer for e	lation of "Goal" ri	Calcu		
		S				ST 100' - Mitigal			1.11		
					Subtract 0.03						
					- Constant					Area #	
			94%	0%	0%	0%	0%	34057	124003	Sq, Foolage % Area	Right Bank
		-			0.4	0.38	0.29	0.07	0.14	Credit>	
				rol	Invasive con	Heavy Plant	Light Plant	Contraction	Sector and	Area #	
		Rt Bank >	94%	0%	0%	0%	0%			Sq, Foolage % Area	Left Bank
0.12	0.11	Lt Bank >	0476	070	0.4	0.38	0.29	0.07	0.14	Credit>	
				SECONDERING STREET						- 2 n	
			and the state of the	Ensure the sume of	on Categoria	rst 100' - Mitigat	Outside Fin	ommunity mainte	ne vegetative co	0	
			100	equa	Subtract 0.06	1				Tw	
								8295	249794	Area # Sq, Footage	Right Bank
			154%	0%	0%	0%	0%	5%	149%	% Area	ragnt Bank
			1	rol		Heavy Plant	Light Plant	0.07	0.07 Pres	1	
rs	CREDIT		1						Life	Area # Sq, Foolage	
Credit	0.11	Rt Bank >	136%	0%	0%	0%	0%	0%	136%	% Area	Left Bank
					0.2	0.19	0.15	0.07	0.07	Credit >	
					1	1000		La la marcare		U.S. S.	
	length /c	Record AF		ch they apply	of a reach for wh	multiplier to length	are applied as a	S: These factors	nt Factor	Adjustme	
credit beneath		tors: These factors are appled as a multiplier to length of a reach for which they apply Adjustment Factor Categories Record AF length the AF acth the AF acth							ivity	Act	
Provide a ation of the	e explana		Preservation	Watershed F	Exclusion	and a manufactor					
Provide a	e explana le site cor	applicabl	the second	and the second second		Catalor is a set of the	nunities	Comm			
Provide a nation of the onditions that nent and justify	e explana le site cor	applicabl warrant an	Preservation - 0.3	0.1	- 0.3	Catalor is a set of the		Comm 0.1	edit gth Affected	Cri	
Provide a nation of the onditions that nent and justify	e explana le site cor adjustme AF credit d	applicabl warrant an	- 0.3 174 25	0.1	- 0.3	0.1	- 0.3	Comm 0.1	edit gth Affected Credit>	Cro Stream Len	
	1 Credit per foot 0.3 Credit SUM of banks s eperatoly) Credit 0.12 Canda fore asparato of project Credit 0.11 (banks fore asparato	CREDITS CREDIT	Length RCI 1674 Credit per foot 92 1 Gradit per foot 92 s 0.3 Work Credit per foot s 0.3 Work 0.3 Work Credit per foot s 0.3 Work 0.3 Work Credit per foot s 0.3 Work O.03 Work Credit per foot s 0.00 CREDITS Rt Bank > 0.00 SUM of banks ofne separately) w. (Widths of buffer above Buffer area not width 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 0.12 Credit for banks X length of project X/W Are X Credit for banks X hength of project X/W Are X Credit for banks X hength of project X/W Are X Credit for banks X hength of project Rt	Reach # Reach Length RCI R14 1674 R14 1674 Image: Stream Length X 10 92 1 -Pools). Constructed Riffles Credit per foot Instream Structures 0.3 = Stream Length X 0.3 Biological Bank Work Be Cumulative Per Length In Techniques Stream Bank Plantings 1 0.09 0 Rt Bank > 0.00 CREDITS 0 Rt Bank > 0 Rt Bank > 0 Rt Bank > 0.00 SUM of banks \$(Length X Credit) for all areas (banks done separately) a and the credit below. 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	C	RCI	Reach Length	Reach #	Date	HUC	Class.	Locality	He .	Project Nam	1	Project #
			73	R15a	1/31/13	03010103	Alau	Franklin		MB - Adden	RRI s) of Evalua	4189
Proj					leed Creek	Tributary to		and Information	Steam Name	tor(s)	SW,GH	Name
a c	Credit per foot						clude buffer width.	ities. Does not in	3 restoration activ	riority 1, 2, and 3	ON: Includes P	Restoratio
Credit per foot 0 Credit per foot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,	uli Restoration = Stream Length X 1.0	otal length of Fi				ration:	ve full Resto	that will recei	ist Reaches		
e	Credit per foot		d Riffles	p-Pools), Constructe	(Vanes, Weirs, Step	ity, Grade Contro	Streambank Stabi	es: Addressing	n Structure	Instream	ment With	Inhancer
0	0.3	0		Instream Structure = Stream Length X 0.3		15	Length:	ify length): 0	tructures (just Structures:	y Instream St	th Affected by	iscuss Leng
		-		2.00			Access to Floodpla		nk Stability, Entre	using Streembar	nent: Addres	Enhancer
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			Planti	on Techniques	Bio-Remediatio	Banks	Lay Back	kfull Bench	Create Ban	tructures	Habitat S	Activities Credit per
		9	0.0	1	0.		0.1	15	0.	.1	0.	foot per bank
				0	0		1.75		0.15	-	Length Credit>	Right Bank
-	Credit	CREDITS 0.00	Rt Bank >	0	0	-			ateria and a		Length	
0	SUM of banks	0.00	Lt Bank >		0.09				0.15		Credit >	Left Bank
-	separalely)		adil) for all areas w. (Widths of b	a and the credit belo	percentage of area	roposed. Enter th	ed on the activity p	n both banks bas	100 foot buffer o	ss the proposed	Areas: Asse	Riparian /
	-					12				EP210-121	mined below)	00' will be deter
		ervation	Buffer an within pres widt	Preservation Low Quality	Preservation High Quality, Restoration, Enhancement	ing - Light	Buffer Plant	ting - Heavy	Buffer Plant	hment	Buffe establis (removal of	Activities
			0	0.07	0.14	9	0.2	38	0.:	4	0.	Credit for 0'-100'
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6			56							-	Area # Sq, Foolage	
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		RCI	Reach Length	Reach #	Date	HUC	Cowardin Class.	Locality	e	Project Nam	F	Project #
			167	R15b	1/31/13	03010103	4	Franklin		MB - Adden		4189 Mamad
Pro					Reed Creek	Tributary to	ation	and information	Steam Name	tor(s)	s) of Evalua SW,GH	mannet
t	Credit per foot		ST USE I				nciude buffer width.	ities. Does not in	3 resloration activ	riority 1, 2, and 3	DN: Includes P	estoratio
1 redit per foot	1			ull Restoration = Stream Length X 10	Total length of F Credits				ration:	ve full Resto	that will recei	st Reaches
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	0.3	0		= Stream Length X 0.3		15	Length:	0	Structures:	y madean of		ocuso cony
·		1.1		And the second second			Access to Floodpla tigation Categ	Mit		using Streamber	nent: Addres	nhancen
				Biological Bank Be Cumulative P	May	en senting of	Per Length	al Bank Work Pick One	Mechanic	r Length	Credit Pe	
			Stream Plantin	on Techniques	Bio-Remediatio	Banks	Lay Back	kfull Bench	Create Ban	tructures	Habitat S	ctivities
			0.09	.1	0.	1	0.:	15	0.	.1	0.	Credit per foot per bank
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7	Credit	CREDITS 0.00	Rt Bank >	0	0						Length	Left Bank
	SUM of banks	0.00	Lt Bank >	Σ(Length X Cre	0.09				0.15		Credit >	.en Bank
		uffer above	w. (Widths of b	a and the credit belo	e percentage of are	roposed. Enter th	ed on the activity p	on both banks bas	100 foot buffer o	as the proposed	Areas: Assemined below)	liparian /
	<i></i>	ervation	Buffer an within pres widt	Preservation Low Quality	Preservation High Quality, Restoration, Enhancement	ing - Light	Buffer Plant	ting - Heavy	Buffer Plan	shment	Buffe establis (removal of	Activities
		0-21-2	0	0.07	0.14	9	0.2	38	0.	4	0.	redit for 0'-100'
			0		0.0		0.1	19			0.	Credit for beyond 198*
1				square feat		VII Charles	ach side (SAR lengt ST 100' - Mitigat		lation of "Goal" ri	Calcu		
					Ensure the sums of equal			ined	mmunity mainta nmunities mainta			
						0		-			Area # Sq, Footage	
				0%	0%	0%	0%	0%	0%	0%	% Area	Right Bank
					rol	0.4 Invasive cont	0.38 Heavy Plant	0.29 Light Plant	0.07 LQ Pres	0.14 HQ Pres	Credit>	
1	Credit	CREDITS 0.00	Rt Bank >	0%	0%	0%	0%	0%	0%	0%	Sq, Footage % Area	Left Bank
-	0.00 (benks done separate	0.00	Lt Bank >			0.4	0.38	0.29	0.07	0.14	Credit>	
minhal			AVE of credit for t					Dutoido Ele	1011 V		_	
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_	* 1.				equal	Subtract 0.06			mmunities mainta		Area #	
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rateriy) rateriy) rateriy) h	Credit 0.00 (banks done separate of project redit beneath	0.00 0.00 t) for all areas (banks X length length /cr activity. F a explanat	Lt Bank > I% Area X Credit AVE of credit for I Record AF the AF narrative	0%	o%	Subtract 0.06 0% 0.2 Invasive cont 0% 0.2 0% 0.2	0.19 Heavy Plant 0% 0.19 multiplier to jength	0% 0.15 Light Plant 0% 0.15 are applied as a r Adjustmen astaned, or d Species or	0% 0.07 0% 0.07 8: These factors Rare, Thri Endangere	o vegetalive cor 0% 0.07 Pres 0% 0.07	Area # Sq. Footage % Area Credit> Area # Sq. Footage % Area Credit > Adjustme	
rately) rately) h	Credit 0.00 (banks done separate of project redit beneath Provide a tion of the ditions that nt and justify	0,00 0.00 t) for all areas (benks X length length /cr activity. F e explanat e site cont adjustmet	Lt Bank > I(% Area X Gredit AVE of credit for if Record AF the AF narrative applicable warrant an	0% 0% 0%	equal 0% rol 0% Ch they apply Watershed F 0.1 -	Subtract 0.06 0% 0.2 Invasive cont 0% 0.2 of a reach for wh portes Exclusion	0.19 Heavy Plant 0% 0.19 multiplier to length t Factor Categ	o% 0.15 Light Plant 0% 0.15 are applied as a Adjustmen satened, or	0% 0.07 0% 0.07 5: These factors Rare, Thr Endangere Comm	o vegetative cor 0% 0.07 Pres 0% 0.07 ent Factors	Area # Sq. Footage % Area Credit> Sq. Footage % Area Credit > Adjustme Acti	
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ect#	1	Project Nam	е	Locality	Cowardin	HUC	Date	Reach #	Reach	RCI		
89	RR	MB - Adden	dum	Franklin	Class.	03010103	1/31/13	R15c	Length 193			
	s) of Evalua	tor(s)	Steam Name	and Inform	ation				1.00	AN SE TI		
	SW,GH				-	Tributary to	Reed Creek	And Advantages of the				Projec Credit
oratio	DN: Includes F	riority 1, 2, and :	3 restoration activ	itles. Does not in	ciude buffer width						Credit per foot	0
		ve full Resto					Total length of f	Full Restoration	, 1	and the	1	
ncen	nent With	Instream	100	Credit per foot								
	and the second second		tructures (just	ify length):			Length Affected by	y Instream Structur	15	0		0
_	1	1	Structures:	0	Length:	15	Credit	a = Stream Langth X 0.:				
ncen	nent: Addre	ssing Streambar	nk Slability, Entre		Access to Floodple tigation Categ			ALC: NOT				
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ies	Habitat S	1. 1.	Create Ban		Lay Back	k Banks		on Techniques	Stream Ba			
t per		and an inclusion		P. St. Dollar		1. Carlos and a second			Planti	ngs		
per 1k	0	.1	0.	15	0.	1	0	.1	0.0	9		
Bank	Length						0	0				
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Bank -	Length Credit >		0.15				0	0	Rt Bank > Lt Bank >	0.00	Credit SUM of banks	0
-	91							Σ(Length X Cr	edil) for all area			
rian A	Areas: Asse mined below)	ss the proposed	100 foot buffer a	n both banks ba:	and on the activity p	proposed. Enter t	he percentage of an	ea and the credit bel	ow. (Widths of b	ulfer above		
In							Preservation	15.		LUE S		
ities	Buffe establis (removal of	shment	Buffer Plant	ting - Heavy	Buffer Plan	ting - Light	High Quality, Restoration, Enhancement	Preservation Low Quality	Buffer an within pres widt	ervation		
8'-100'	0	4	0.	38	0.2	29	0.14	0.07	0			
for 100'	0	2	0.	19	0.1	15	0.	.07	0			
1		Calcu	station of "Goal" rig		ach side (SAR lengti			square feet				
			ommunky mainta	ined	ST 100' - Mitigat	Subtract 0.03	Ensure the sums o	f % Riparian Blocks		diam-1		
- 1	Area #	o vegetative cor	mmunities maints	ained		Subtract 0.06	equa	al 100	5			
Bank	Sq, Footage % Area	08/	08/	08/	08/	0						
	% Area Credit>	0% 0.14	0%	0%	0%	0%	0%	0%				
1	Area #	HQ Pres	LQ Pres	Light Plant	Heavy Plant	Invasive con	trol					
Bank	Sq. Footage % Area	0%	0%	0%	0%	0%	0%	0%	Rt Bank >	CREDIT: 0.00	S Credit	
	Credit>	0.14	0.07	0.29	0.38	0.4		5/	Lt Bank >	0.00	0.00	0
_	_			0					I (% Area X Cred AVE of credit for		(banks done separate of project	ny)
	0	ne vegetative co	mmunity mainta mmunities mainta	ined	st 100' - Mitigat	Subtract 0.03	Ensure the sums o	f % Riparian Blocks				
1	Area #	C VEDERAND CON		uneo		Subtract 0.06	equa	al 100	le internet			
Bank	Sq, Footage % Area	0%	0%	0%	0%	0%	0%	0%				
	Credit>	0.07 Pres	0.07	0.15 Light Plant	0.19 Heavy Plant	0.2 Invasive con	trol					
	Area # Sq, Footage				Cont Light					CREDIT	5	
Bank	% Area	0%	0%	0%	0%	0%	0%	0%	Rt Bank >	0.00	Credit	
	Credit >	0.07	0.07	0.15	0.19	0.2			Lt Bank >	0.00 It) for all areas	0.00 (banks done separate	0
		nt Factor	These fasts		an ant all a second		1.1		AVE of credit for	benks X lengti	h of project	340M
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	1	N BAURI	0	Full Restoration	Total length of F						that will recei	
Credit per foot 0.3 0		ad Riffles	p-Pools), Constructe	ol (Vanes, Weirs, Ste	iity, Grade Contro	Streambank Stabi	es: Addressing	Structur	Instream	ment With	Inhancer	
0	0.3			y Instream Structur s = Stream Length X 0.;				ify length):	ructures (just	y Instream Si	th Affected b	iscuss Leng
Bank			J	sin	Access to Floodple	nchment Ratios,	nk Stability, Entre	ssing Streamba	nent: Addres	inhancer		
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		uffer above	ow. (Widths of t	a and the credit bek	he percentage of are	proposed. Enler t	ed on the activity p	n both banks bas	100 foot buffer o	ss the proposed		Riparian /
		alle internet	-	1. 1. 1827-1		an the second						
		ervation	Buffer an within pres widt	Preservation Low Quality	Preservation High Quality, Restoration, Enhancement	ling - Light	Buffer Plant	ting - Heavy	Buffer Plant	shment	Buffe establis (removal of	Activities
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		RCI	Reach	Reach #	Date	HUC	Cowardin Class,	Locality	le	Project Nam		Project #
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		ervation	Buffer are within prese width	Preservation Low Quality	reservation ligh Quality, Restoration, nhancement	ng - Light	Buffer Plant	ting - Heavy	Buffer Plan	shment	Buffe establis (removal of	Activities
			0	0.07	0.14		0.2	38	0.	4	0.	Credit for 0'-100'
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Compensation Summary Form (Form 4)

Unified Stream Methodology for use in Virginia

Project #	Applicant	Date 3/31/2014
4189	Roanoke River Wetlands & Stream MB - Amendment	
	Evaluators HUC	Locality
	SW, GH 3010103	Franklin

Stream Name	Reach ID	Comp. Length (L _c) (feet)	Total Compensation Credit (Total CC) (From Form 3)
Tributary to Reed Creek	R1	894	394
Tributary to Reed Creek	R2	427	252
Tributary to Reed Creek	R3	9,068	1,723
Tributary to Reed Creek	R3a	249	135
Tributary to Reed Creek	R5	928	250
Tributary to Reed Creek	R5a	25	0
Tributary to Reed Creek	R6	156	95
Tributary to Reed Creek	R7	1,054	558
Tributary to Reed Creek	R7a	40	12
Tributary to Reed Creek	R8	468	266
Tributary to Reed Creek	R9	176	36
Tributary to Reed Creek	R10	2,543	585
Tributary to Reed Creek	R10a	212	0
Tributary to Reed Creek	R10b	60	18
Tributary to Reed Creek	R11	247	47
Tributary to Reed Creek	R12	827	438
Tributary to Reed Creek	R13	581	297
Tributary to Reed Creek	R14	1,674	896
Tributary to Reed Creek	R15	2,269	499
Tributary to Reed Creek	R15a	73	22
Tributary to Reed Creek	R15b	167	50
Tributary to Reed Creek	R15c	193	58
Tributary to Reed Creek	R16	604	121
Tributary to Reed Creek	R16a	51	15
	Totals	22,986	6,767

Note: Round all feet & CC's to the nearest whole number.